

**INITIAL SITE  
CHARACTERIZATION**

Denver Coliseum  
4600 Humboldt Avenue  
Denver, Colorado

**PREPARED FOR:**

City and County of Denver  
Environmental Services  
216 16th Street, #1500  
Denver, CO 80202

Attention: Ms. Lindsay Bethel

August 12, 1994



**PINYON ENVIRONMENTAL  
ENGINEERING RESOURCES, INC.**

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Suite 320  
Lakewood, CO 80226  
(303) 980-5200

A Report Prepared For

The City and County of Denver  
216 Sixteenth Street, Suite 1500  
Denver, CO 80202

PEER Project 1/94-07-13.11

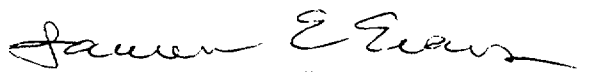
**INITIAL SITE CHARACTERIZATION**  
**4600 Humboldt Avenue**  
**Denver, Colorado**

August 12, 1994

by

  
Tom Lutherer  
Hydrogeologist

Reviewed by

  
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# **Colorado Storage Tank Remedial Section Initial Site Characterization Report Checklist**

Site name/county: Denver Coliseum/Denver Phone: \_\_\_\_\_  
 Address/city, State, Zip: 4600 Humboldt St.  
 Owner/operator name: City & County of Denver, EVS Phone: 640-3314  
 Address/city, State, Zip: 216 Sixteenth St., Suite 1500, Denver, CO 80202

The following checklist must be filled out by the Responsible Party and/or his Consultant and included with the Initial Site Characterization Report. Please indicate on the checklist the page number where each item is addressed in the report. Note that where certain items from this checklist are not addressed in the report, a justification is needed, which explains why no information was provided for these items. The contents of the report should be commensurate with the nature of the release, degree of contamination, and complexity of the site investigation.

## **Page**

### **General Background**

|           |   |
|-----------|---|
| <u>5</u>  | Cause of release  |
| <u>5</u>  | Type(s) of regulated substance(s) released  |
| <u>8</u>  | Quantity of released product  |
| <u>8</u>  | Period of time during which release occurred  |
| <u>16</u> | Extent of known release at time of the report   |
| <u>8</u>  | Dimensions of any excavations, estimated volume of excavated material and its disposition |
| <u>NA</u> | Condition of tank   |
| <u>NA</u> | Condition of piping   |
| <u>5</u>  | Visual contamination  |

### **General Facility History**

|           |  |
|-----------|--|
| <u>1</u>  | Tank owner name and mailing address including zip code/business information and land use(s)  |
| <u>1</u>  | Relevant past history of the site  |
| <u>1</u>  | List of all regulated substances previously or currently stored, or released from storage tanks at the site including the size (volume and dimensions) and contents of each tank |
| <u>12</u> | Description of populations or structures potentially affected by the release   |

### **General Location Maps of the Site Area**

|       |   |
|-------|---|
| 1     | Site location including address and county  |
| 2     | Streets (labeled)   |
| 12    | Locations of populations potentially affected by the release                                |
| 12-15 | Locations of wells potentially affected by the release (within 1/2 mile radius of the site) |
| 3     | Detailed site maps to scale   |

### **Detailed Site Maps**

|    |   |
|----|---|
| 12 | Adjacent land uses and structures surrounding the facility that could affect or be affected by the release              |
| NA | Approximate property boundaries   |
| 2  | All on-site buildings or structures   |
| 1  | Type and extent of ground surface cover   |
| 3  | Present and/or former tank locations, including all piping and ancillary equipment                                      |
| 3  | Extent of excavations and locations of stockpiles   |
| 12 | Significant subsurface features which could provide a pathway for migration (include utility corridor, basements, etc.) |
| 3  | Soil sample locations, including soil-vapor points  |
| 9  | Soil boring and monitoring well locations   |
| 12 | Overhead structures or utilities limiting access  |

### **Regional Geology of the Site Area**

|    |   |
|----|---|
| 11 | Description of the geological setting containing the site       |
| 11 | Description of the general soil types and/or rock types present |

### **Regional Hydrogeology of the Site Area**

|    |   |
|----|---|
| 11 | Determination of the depth to the uppermost saturated zone beneath the site using State Engineers Records and/or other regional information available |
| 11 | Summary of the regional ground-water flow direction at this site and the method used for its determination  |
| 11 | Climatological data for the site including, but not limited to, the average monthly and annual precipitation  |
| 11 | Identification of potential areas of local ground-water recharge or discharge   |

|      |  |
|------|--|
| 6-10 | <b>Sampling and Analysis Plan</b> with results reported in table form including the analytical method used |
|------|--|

|    |  |
|----|--|
| 16 | <b>Summary</b>                             |
| 16 | <b>Conclusions</b>                         |
| 16 | <b>Recommendations for Further Actions</b> |

Comments: \_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To facilitate the review of this report, please identify an authorized person with address and phone number, who can respond to requests and questions regarding this facility.

Authorized person's name: Lindsay Bethel Phone: 640-3234  
City & County of Denver, EVS  
Address/city, State, Zip: 216 Sixteenth St., Suite 1500  
Denver, CO 80202

Preparer's signature: \_\_\_\_\_ Phone: 980-5200

## 1.0 INTRODUCTION

Pinyon Environmental Engineering Resources, Inc. (Pinyon), completed an Initial Site Characterization (ISC) study during the in-place abandonment of two underground storage tanks (USTs) located on the south side of the Denver Coliseum, 4600 Humboldt Avenue in Denver, Colorado (Figure 1). This study was conducted in accordance with the guidelines established by the Colorado Department of Public Health and Environment (CDPHE), as outlined in the "Storage Tank Facility Owner/Operator Guidance Document, for Initial Site Characterization, Second-Level Site Assessment, Use of State Cleanup Guidelines, and Management of Contaminated Materials", (CDH, 1992), and in accordance with 6 CCR 1007-5.

The site is owned by the City and County of Denver and used by the Denver Coliseum. The tanks were operated by the Denver Coliseum. Questions regarding this work will be addressed by:

Ms. Lindsay Bethel

Environmental Services  
City and County of Denver  
216 Sixteenth Street, Suite 1500  
Denver, CO 80202  
(303) 640-3234

The USTs are located under the sidewalk, between the south wall of the Denver Coliseum and McFarland Avenue (Figure 2). The Denver Coliseum and the sidewalk extend several hundred feet to the east and west of the UST location.

Both USTs at the site were associated with Denver Coliseum utilities. One of the USTs, a 550-gallon steel tank, was used to store diesel fuel for the Coliseum's emergency electrical generators. The dimensions of the diesel tank are 4 feet by 6 feet, with the top of the tank at a depth of 5 feet. The second UST, a 15,000-gallon steel tank, was used to store heating oil for the Coliseum's heating system. The dimensions of the heating fuel tank are 15 feet by 10 feet, and the top of the tank was at a depth of 6 feet. There was piping from both tanks into the Coliseum. In addition, both USTs were filled from outside the Coliseum. Based on information supplied by Ms. L. Eres of Theatres and Arenas, the diesel tank had recently been in operation; however, the heating oil tank had not been in use for several years. Due to the proximity of the Coliseum building, and McFarland Avenue (and associated utilities), it was not possible to





### LEGEND

EG-1

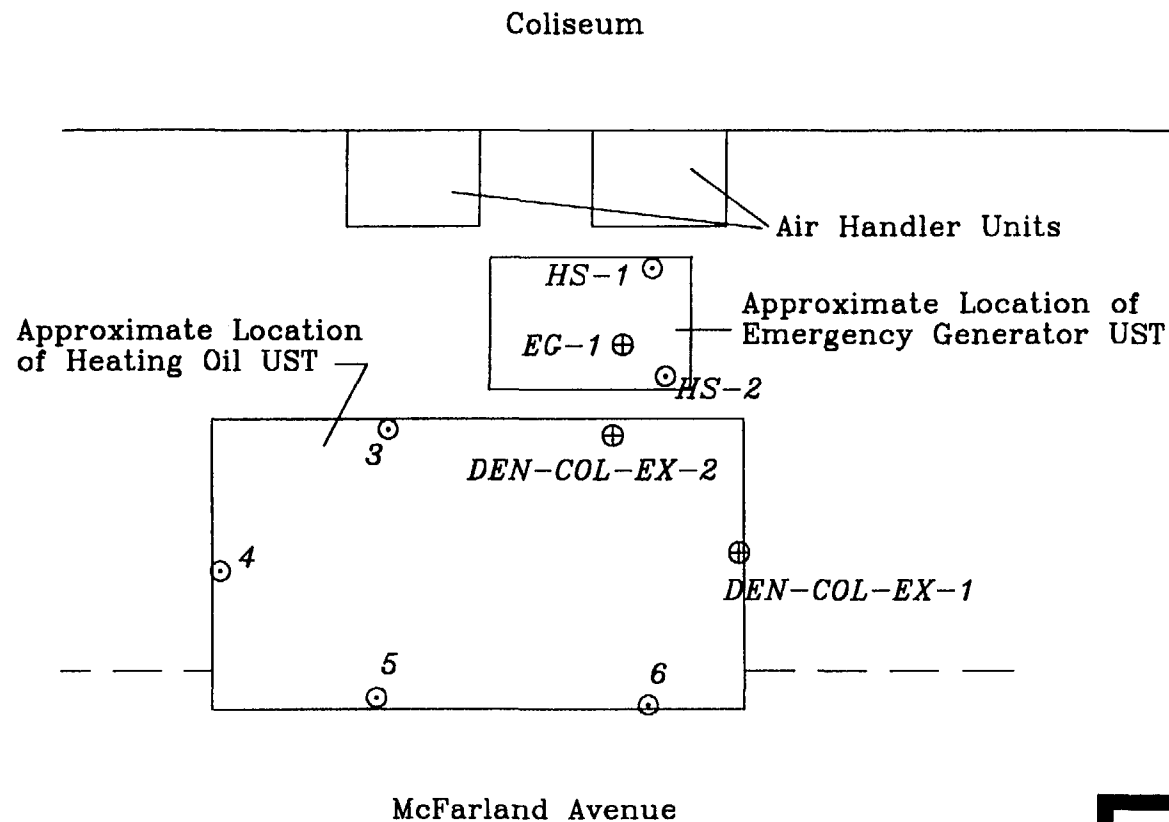


Soil Sample Submitted for Laboratory Analysis

1



Soil Sample Screened by Headspace Analysis



Not to Scale

**PINYON** ENVIRONMENTAL ENGINEERING  
RESOURCES, INC.

### SITE PLAN AND SAMPLING LOCATIONS

Denver Coliseum, Denver, CO

Job No. 1/94-07-13.11      Figure 2

remove the tanks. Therefore, they were abandoned in place. (McFarland Avenue is depicted as Arkins Court on local maps.)

## **2.0 TANK ABANDONMENT ACTIVITIES**

### **2.1 Chronology**

On May 12, 1994, HP Environmental uncovered the UST piping using a trackhoe excavator, in order to obtain a composite soil sample to be analyzed for soil disposal characterization. Based on chemical analysis for ignitability and Toxicity Characteristics Leaching Procedure (TCLP) Metals, the soil was found to be non-hazardous (Table 1).

Prior to site activities, the Colorado Department of Labor and Employment, Oil Inspection Section (OIS) and the Denver Fire Department were notified of the planned activities. The tanks were abandoned in place on June 27 (heating oil tank) and June 30 (emergency generator tank), 1994, by HP Environmental. Both tanks were uncovered to allow access to the tops of the USTs. Photographs of the activities are included in Appendix A. Before backfilling the excavations with clean fill, the residual fluids of the USTs were pumped by Mesa Oil (Appendix B). Dry ice was placed in the empty tanks to inert any explosive vapors.

Discolored soil was encountered approximately four to five feet below grade in the vicinity of the piping that connected the heating oil tank to the Coliseum. Soil samples were field screened during excavation activities using a photoionization detector (PID) and the headspace technique. These samples were obtained from within the excavation (Figure 2) as well as from the soil stockpiles. A PID was used to measure concentrations of volatile organic compounds in air. The headspace technique was conducted by placing soil in a "zip-lock" bag, and sealing the bag. The samples were then placed in a warm place to promote volatilization of the volatile organic compounds. After a period of time (15 to 20 minutes), the PID was inserted into the bag and a measurement obtained (Table 2).

Based on observation and the headspace readings, it appears that there may have been minor spills and overfills in the area of the fill pipe on the heating oil tank.

**TABLE 1**  
**SUMMARY OF ANALYTICAL RESULTS - DISPOSAL PROFILING**

| Parameter        | Colis-1       |
|------------------|---------------|
| Date of Sampling | 5-12-94       |
| Ignitability     | Non-Ignitable |
| TCLP-Arsenic     | < .29         |
| TCLP-Barium      | 1.3           |
| TCLP-Cadmium     | < .02         |
| TCLP-Chromium    | < .08         |
| TCLP-Lead        | < .28         |
| TCLP-Selenium    | < .36         |
| TCLP-Silver      | < .5          |
| TCLP-Mercury     | < .00         |

**NOTES:**

*All concentrations are in mg/L unless otherwise indicated.*

Following headspace measurements, four soil samples were submitted for analyses. The analyses were selected based on the use of the tanks (diesel and heating oil) and the CDPHE guidelines. The soil samples were analyzed for benzene, toluene, ethyl benzene and total xylenes (BTEX), using EPA Method 8020; and for total extractable petroleum hydrocarbons (TEPH), using modified EPA Method 8015.

Low level concentrations of BTEX compounds and TEPH were detected in two of the samples obtained (Table 2). TEPH was detected in the sample DEN-COL-EX-1 at a concentration of 250 milligrams per kilogram (mg/Kg), and xylenes were detected at a concentration of 0.0035 mg/Kg in sample DC-COMP 1 (the stockpile sample). A copy of the laboratory report is included as Appendix C.

**TABLE 2**  
**HEADSPACE AND LABORATORY ANALYSES**  
**UST EXCAVATION**

| Sample       | Date    | Headspace | TEPH   | Benzene | Toluene | E-Benzene | Xylenes | BTEX  |
|--------------|---------|-----------|--------|---------|---------|-----------|---------|-------|
| EG-1         | 6/30/94 | NA        | ND     | ND      | ND      | ND        | ND      | ND    |
| DC-Comp 1    | 6/27/94 | NA        | ND     | ND      | ND      | ND        | .0035   | .0035 |
| DEN-COL-EX-1 | 6/27/94 | 23.8      | 250    | ND      | ND      | ND        | ND      | ND    |
| DEN-COL-EX-2 | 6/27/94 | 14.2      | ND     | ND      | ND      | ND        | ND      | ND    |
| CO-UST       |         | -         | 20/250 | *       | *       | *         | *       | 5/50  |
| 3            | 6/27/94 | 12.0      | NA     | NA      | NA      | NA        | NA      | NA    |
| 4            | 6/27/94 | 9.2       | NA     | NA      | NA      | NA        | NA      | NA    |
| 5            | 6/27/94 | 10.4      | NA     | NA      | NA      | NA        | NA      | NA    |
| 6            | 6/27/94 | 12.2      | NA     | NA      | NA      | NA        | NA      | NA    |
| HS-1         | 6/30/94 | 1.7       | NA     | NA      | NA      | NA        | NA      | NA    |
| HS-2         | 6/30/94 | 2.8       | NA     | NA      | NA      | NA        | NA      | NA    |

**NOTES:**

*NA - Sample not analyzed.*

*ND - Compound not detected.*

*DC - Comp 1 was collected from the stockpile.*

*Headspace concentrations are given in parts per million (calibrated to an isobutylene standard).*

*Concentrations are given in milligrams per kilogram.*

*CO UST - Colorado guidelines for defining extent of contamination/RACII clean-up guidelines.*

*\* Guidelines are given for total BTEX concentrations.*

To further evaluate subsurface conditions at the site, Pinyon drilled and sampled six borings in the vicinity of the abandoned tanks on July 13, 1994. Two of the borings located near the diesel tank were drilled to a depth of 10 feet (equivalent to the bottom of the emergency generator tank); and four borings in the vicinity of the heating oil tank, to a depth of approximately 20 feet (equivalent to the bottom of the heating oil tank) (Figure 3). The borings were drilled using a CME-55 truck-mounted rig equipped with 4-1/4 inch inner diameter (ID) hollow stem augers (HSA).

Samples were obtained continuously during drilling, and described using the Unified Soils Classification System (USCS). This information was recorded on a boring log. In addition, samples were obtained for headspace analysis. A split of the soil sample exhibiting the highest headspace readings from each borehole were submitted for laboratory analysis. The laboratory report is included as Appendix C, and the boring logs are included as Appendix D.

None of the samples submitted exhibited concentrations above detection limits (Table 3), with the exception of sample CO-2-14. Xylenes were detected in that sample at a concentration of 0.0021 mg/Kg. A copy of the laboratory report is included as Appendix C. Based on the analytical data the extent of soil contamination has been defined in accordance with the CDPHE guidance documents (5 mg/Kg of total BTEX and 20 mg/Kg of TEPH).

## **2.2 Soil Disposal**

Soil excavated during the uncovering of the tops of the two tanks was stockpiled on plastic sheeting at the site pending laboratory analysis and disposal approval. This soil, approximately 35 cubic yards, was then transported to the Denver Arapahoe Disposal Site (DADS) for disposal (Appendix B).

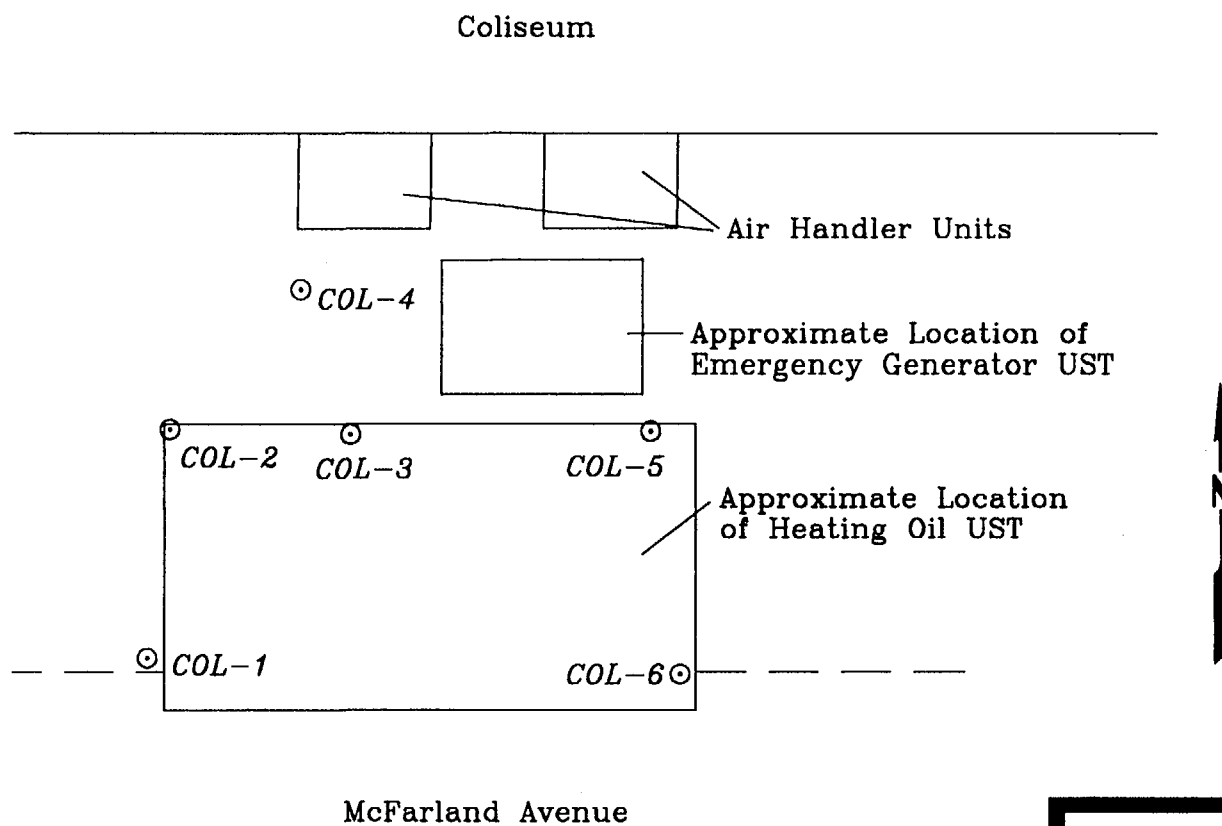
## **2.3 Characteristics of Release**

Based on the minimal detection of BTEX constituents and TEPH, it appears that minor spills and overfills have occurred in the area of the fill pipe on the heating oil tank.

LEGEND

COL-1

⊙ Soil Boring



Not to Scale

**PINYON** ENVIRONMENTAL ENGINEERING  
RESOURCES, INC.

**BORING LOCATIONS**

*Denver Coliseum, Denver, CO*

Job No. 1/94-07-13.11

Figure 3

**TABLE 3**  
**HEADSPACE AND LABORATORY ANALYSES**  
**SOIL BORINGS**

| Sample  | Depth (feet) | Headspace | TEPH   | Benzene | Toluen | E-Benzene | Xylene | BTEX  |
|---------|--------------|-----------|--------|---------|--------|-----------|--------|-------|
| CO-1-20 | 20           | 8.6       | ND     | ND      | ND     | ND        | ND     | ND    |
| CO-2-14 | 14           | 56        | ND     | ND      | ND     | ND        | .0021  | .0021 |
| CO-2-19 | 19           | 47        | ND     | ND      | ND     | ND        | ND     | ND    |
| CO-3-9  | 9            | 37.8      | ND     | ND      | ND     | ND        | ND     | ND    |
| CO-4-10 | 10           | 14.8      | ND     | ND      | ND     | ND        | ND     | ND    |
| CO-5-19 | 19           | 15.8      | ND     | ND      | ND     | ND        | ND     | ND    |
| CO-6-19 | 19           | 41.0      | ND     | ND      | ND     | ND        | ND     | ND    |
| CO-UST  |              | -         | 20/250 | *       | *      | *         | *      | 5/50  |

**NOTES:**

*NA - Sample not analyzed.*

*ND - Compound not detected.*

*Headspace concentrations are given in parts per million (calibrated to an isobutylene standard).*

*Concentrations are given in milligrams per kilogram.*

*CO UST - Colorado guidelines for defining extent of contamination/RACII clean-up guidelines.*

*\* Guidelines are given for total BTEX concentrations.*



### **3.0 GEOLOGY/HYDROGEOLOGY**

#### **3.1 Geology/Hydrogeology of Area**

According to the US Geologic Survey (USGS), the surficial soil in the area is the Broadway Alluvium (Lindvall, 1980). The Broadway alluvium is characterized as a pink to light-brown, generally well stratified sand and gravel. This soil unit is up to 15 feet thick. The soil in the area is underlain by the Denver Formation, an interbedded sandstone, siltstone and claystone.

Ground water in the area was encountered in the alluvial materials during the subsurface investigation at a depth of approximately 19 feet. According to the USGS, ground water in the area typically occurs at depths between 10 and 20 feet (Hillier, 1983). To the east, and topographically upgradient of the site, ground-water occurs at depths in excess of 20 feet (Hillier, 1983). Based on topography, ground water probably flows to the west or northwest at the site, towards the South Platte River.

The site is located in Denver County. In general, the climate of the area is that of the semi-arid high plains. Average annual precipitation is 14.05 inches (as measured at Stapleton Field). The months of highest precipitation are May and July. The driest months of the year are December and January. The average number of days with snow cover is 41. The average minimum temperature is 35° Fahrenheit (F); the average maximum temperature is 66° F (USDA, 1974).

#### **3.2 Geology/Hydrogeology of Site**

Subsurface soils encountered during drilling at the site included interbedded sands and clays (Appendix D). The sands were generally fine to coarse grained, with some gravel and silt. The silt layers were very sandy. Bedrock was not encountered in the borings. Ground water was encountered at a depth of 18.5 to 19 feet below ground surface.

## 4.0 POTENTIAL RECEPTORS

The site is located in the Coliseum complex, and is surrounded by commercial properties. Minor levels of subsurface soil contamination were detected at the site. Contaminated soil was not observed to be in contact with ground water.

A storm sewer is located in McFarland Avenue. Gas and electrical lines extend from the coliseum on the east and west sides of the heating tank, respectively, into McFarland Avenue. Given the limited extent on contamination, it is unlikely that the utilities would be receptors of or migration pathways for the detected hydrocarbons.

As previously discussed, ground water likely flows to the northwest or west at the site. To evaluate other potential receptors in the vicinity, a search of all permitted ground-water wells within a 1/2-mile radius of the site was conducted. Seventy wells were identified in the search. Of these, 52 are ground-water monitoring wells. Of the remaining 18 wells, two are domestic wells, 14 are industrial wells, and two are commercial wells (Table 4). (The complete listing is included as Appendix E.) Of these wells, none are directly down-gradient of the site (Figure 4). Both of the domestic wells are located approximately one-half mile to the north-east, cross-gradient from the site.

The CDPHE has established remedial action categories (RAC) for leaking UST sites. The RAC categories range from RAC I (most stringent) to RAC III (least stringent). The RAC categories are based on ground-water use in the vicinity of the site. Guidelines for remediation of soil have been developed for each category. Based on the data, ground water is not used down-gradient of the site. Given the availability of the public water supply and the large number of monitoring wells, which is an indication of potentially contaminated ground water, it is unlikely that the water will be used in the future for domestic purposes. Therefore, the site should be classified by CDPHE as RAC II for remedial purposes. The RAC II category clean-up guidelines for soil are 50 mg/Kg of total BTEX and 250 mg/Kg of TEPH. TEPH was detected at the RAC II guideline in one sample; TEPH was not detected in any of the other samples. BTEX compounds were not detected at levels above the RAC II guidelines.

**TABLE 4**  
**Summary of Well Permits**

| <b>Well ID#<br/>(Figure 4)</b> | <b>Location/Address</b>                          | <b>Distance (mis.)/<br/>Direction</b> | <b>Use</b> | <b>Water<br/>Level</b> | <b>Construction<br/>Date</b> |
|--------------------------------|--|---------------------------------------|------------|------------------------|------------------------------|
| 1                              | Brannan Sand & Gravel<br>4800 Brighton Boulevard | 0.5/NE                                | D          | 6                      | 5/27/66                      |
| 2                              | Baginski<br>4900 Brighton Boulevard              | 0.5/NE                                | I          | 45                     | 3/8/63                       |
| 3                              | Company Johns<br>4995 Jackson St.                | 0.5/NE                                | D          | 22                     | 1/28/70                      |
| 4                              | Meinerz Dehydrating<br>4900 Humboldt Street      | 0.5/N                                 | I          | 14                     | 10/30/63                     |
| 5                              | K&B Packing                                      | 0.5/N                                 | I          | NR                     | 2/19/17                      |
| 6                              | K&B Packing                                      | 0.5/N                                 | I          | NR                     | 12/31/17                     |
| 7                              | K&B Packing                                      | 0.5/N                                 | I          | NR                     | 12/31/58                     |
| 8                              | Penner-Frantz                                    | 0.5/NW                                | I          | 29                     | 6/22/59                      |
| 9                              | Landers Inc.                                     | 0.5/NW                                | C          | 26                     | 8/2/57                       |
| 10                             | Spratlen   | 0.25/SW                               | I          | NR                     | 8/24/79                      |
| 11                             | CO By Products<br>4400 Brighton Blvd.            | 0.25/E                                | C          | NR                     | 8/22/58                      |

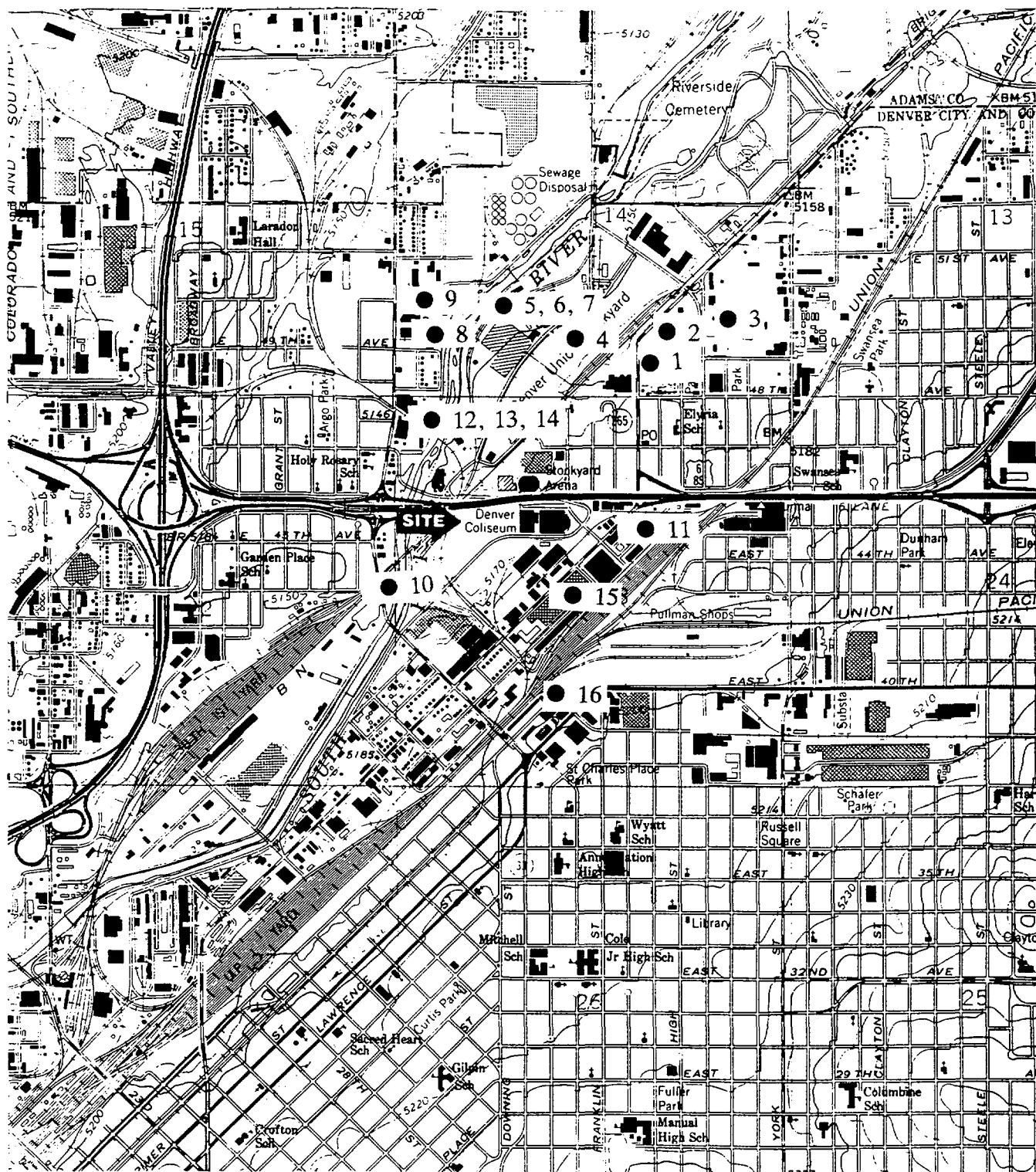
**TABLE 4**  
**(Continued)**  
**Summary of Well Permits**

| Well ID#<br>(Figure 4) | Location/Address                         | Distance (mis.)/<br>Direction | Use | Water<br>Level | Construction<br>Date |
|------------------------|--|-------------------------------|-----|----------------|----------------------|
| 12                     | K&B Packing                              | 0.25-0.50/NW                  | I   | NR             | 1/27/53              |
| 13                     | K&B Packing                              | 0.25-0.50/NW                  | I   | NR             | 12/31/15             |
| 14                     | K&B Packing                              | 0.25-0.50/NW                  | I   | NR             | 12/31/36             |
| 15                     | National Tea Co.<br>4120 Brighton Blvd.  | 0.15/S                        | I   | 30             | 10/24/74             |
| 16                     | Continental Plastics<br>1300 40th Street | 0.40/S                        | I   | 36             | 3/4/68               |

*Notes:*

*NR Not Recorded*  
*MII Monitoring Hole*  
*D Domestic*  
*I Industrial*  
*C Commercial*

Two wells were listed, but permits had not been granted; therefore they were not included in this table or on Figure 4. In addition, due to the large number of monitoring wells located near the site, they have not been listed in this table or plotted on Figure 4.



Locations of Wells are Approximate  
Numbers Reference Table 4

Map Reference:  
USGS 7.5' Topographic Quadrangle  
Commerce City, CO  
1965, photorevised 1980

Scale: 1" = 2,000'

**PINYON** Environmental Engineering  
Resources, Inc.

## LOCATION OF PERMITTED WELLS

Denver Coliseum, Denver, CO

Job #1/94-07-13

Figure 4

## **5.0 CONCLUSIONS AND RECOMMENDATIONS**

One 15,000-gallon heating oil storage tank and one 1,000-gallon gasoline storage tank were abandoned in place at the site in July of 1994. Due to the proximity of the Coliseum building and underground utilities in Mcfarland Avenue, the tanks could not be removed. Soil samples were obtained from the excavation when the tanks were uncovered. In addition, soil samples were obtained from six soil borings drilled at the site. Minor levels of petroleum contaminated soil, due to spills and overfills were detected in the vicinity of the piping of the heating oil tank.

Concentrations of BTEX compounds were not detected in excess of the RAC II guidelines. TEPH was detected in one sample at a concentration equal to the RAC II guidelines.

Ground water was encountered in the soil borings at a depth of 18.5 to 19 feet. Contaminated soil was not observed to be in contact with ground water.

Given the observations and the results of the analytical work, the extent of soil contamination has been defined in accordance with CDPHE guidance documents. The volume of contaminated soil is extremely limited, and the contamination detected was at or below the RAC II clean-up guideline. Contaminated soil did not extend to ground water. Based on this information, no additional investigations are necessary. Pinyon recommends that CCoD request closure for this site.

## 6.0 REFERENCES

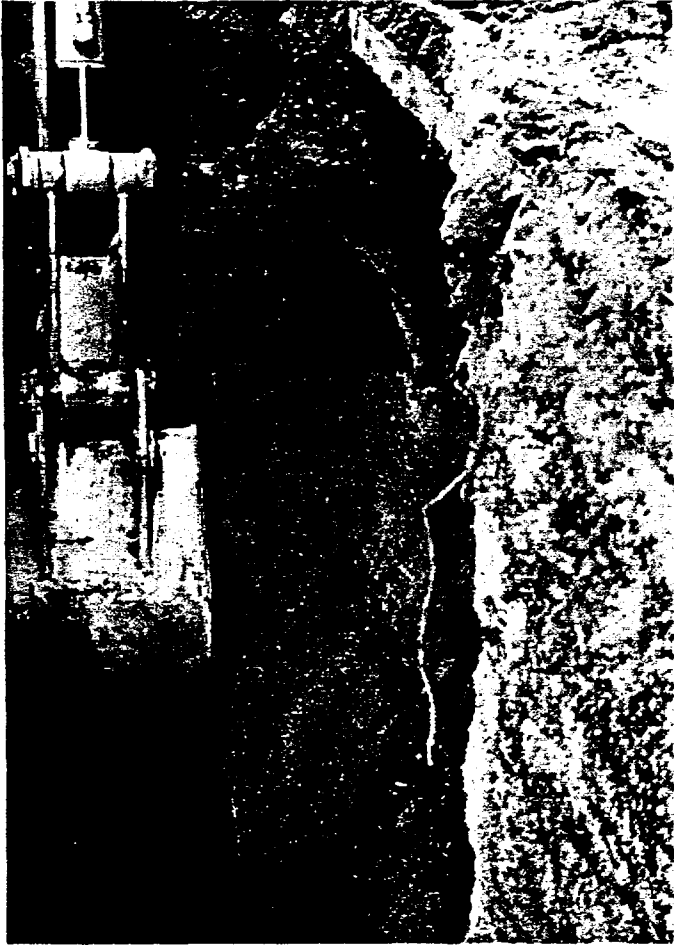
- CDH, 1992. "Storage Tank Facility Owner/Operator Guidance Documents for Initial Site Characterization, Second-Level Site Assessment, Use of State Cleanup Guidelines, and Management of Contaminated Materials," Colorado Department of Health, Hazardous Materials and Waste Management Division, Denver, December 11, 1992.
- Hillier, Donald E., Paul A. Schneider, Jr., and E. Carter Hutchinson, "Depth to the Water Table (1976-1977) in the Greater Denver Area, Front Range Urban Corridor, Colorado", USGS Miscellaneous Investigations Series Map I-856-K, 1983.
- Lindvall, Robert M. "Geologic Map of the Commerce City Quadrangle, Adams and Denver Counties, Colorado," USGS Geologic Quadrangle Map GQ-1541, 1980.
- USDA, 1971. "Soil Survey of Arapahoe County, Colorado," United States Department of Agriculture Soil Conservation Service, Washington, DC.
- USGS, 1980. "7.5' Topographic Map, Commerce City, Colorado".

## **7.0 LIMITATIONS**

The conclusions and recommendations offered in this report are based on data obtained from a limited number of samples. Soil and ground water conditions typically vary even over short distances. Thus, the nature and extent of variations between the subsurface explorations may not become evident except through further investigations.

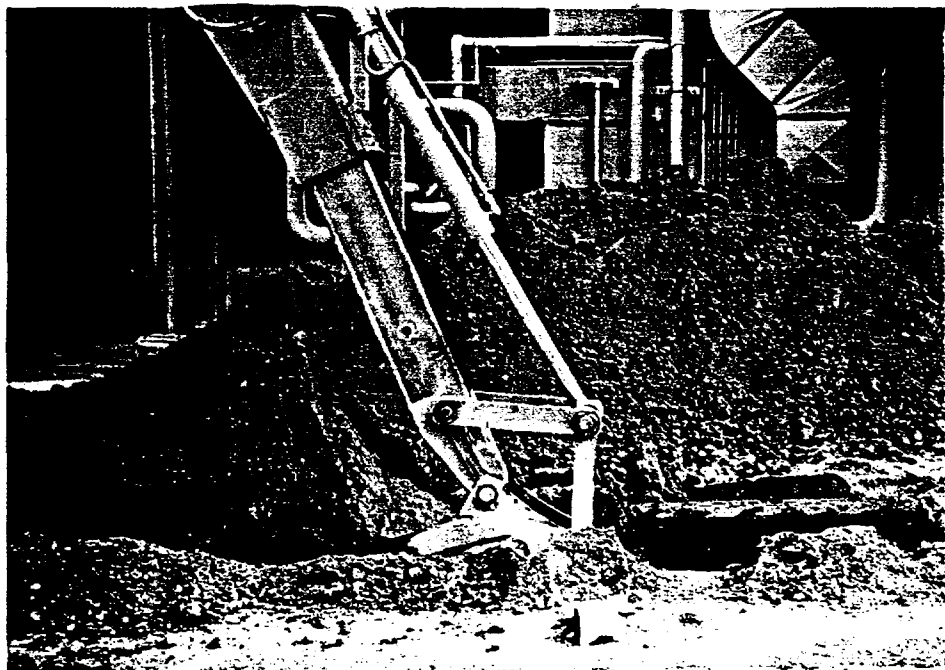
Laboratory analyses have been performed for specific constituents during the course of this investigation, as described in the text. Conclusions stated herein refer only to the specific samples at the time of investigation.





5/12/94 - Track hoe excavation over heating oil tank. Fill line is exposed. Soil sample for disposal characterization originated in vicinity of fill line.

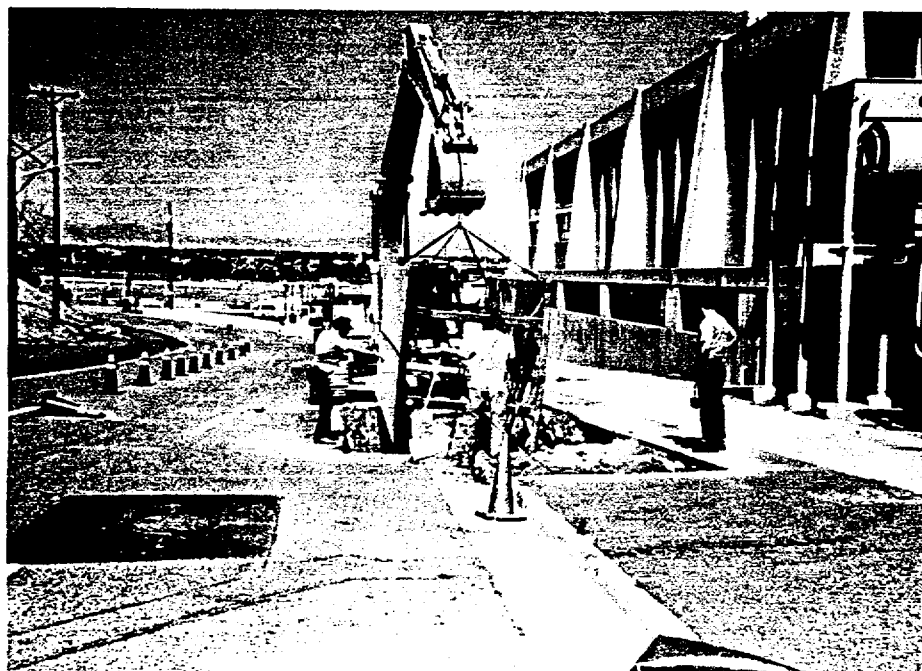
5/12/94 - Track hoe excavation over heating oil tank.





6/27/94 View  
west into  
excavation of  
heating oil tank.  
Bottom of  
excavation is at  
top of tank,  
approximately  
six feet below  
ground surface.

6/27/94 View  
west along south  
side of  
Coliseum and  
McFarland St.  
Shore-box being  
lowered into  
heating oil tank  
excavation.

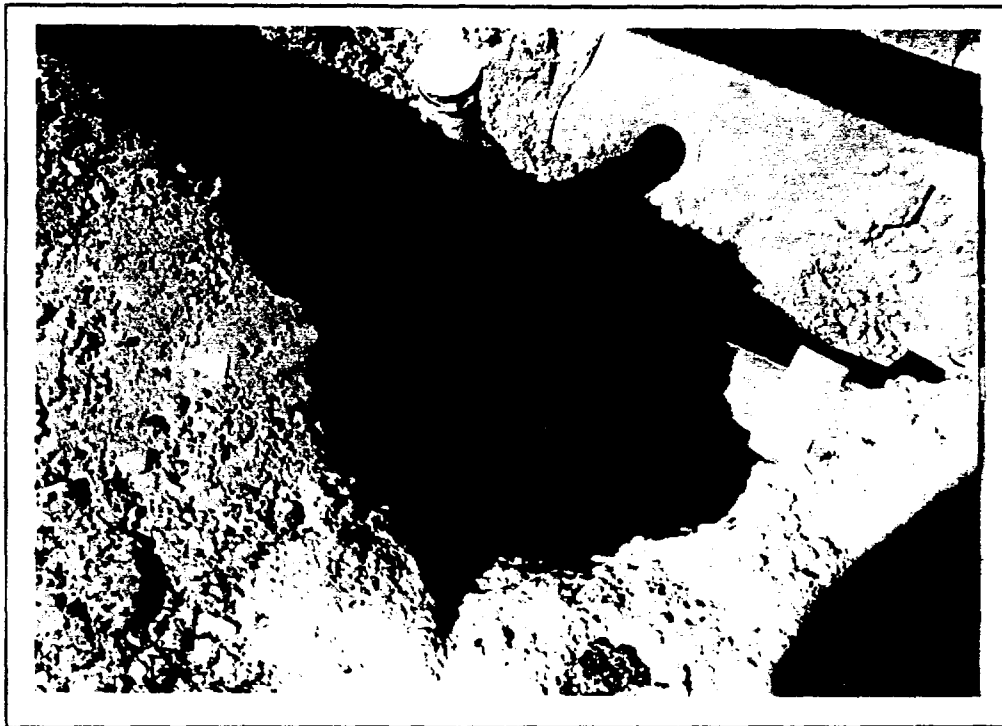




6/27/94 H.P.  
Environmental  
personnel  
measuring  
residual fluid  
level of heating  
oil tank.

6/27/94 View of  
interior of  
heating oil tank  
excavation.  
Soil samples  
were obtained  
on both ends  
and sides of  
excavation.





6/27/94 View  
of heating oil  
tank piping.  
Sample  
exhibiting 250  
mg/Kg  
concentration of  
TEPH  
originated  
beneath pipe.

6/30/94 View  
into excavation  
of emergency  
generator diesel  
tank.

Excavation is  
shored with  
conduit. Fill  
hole visible on  
top of tank.



# **Poor Quality Source Document**

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Superfund Records Center at 303-312-6473**

**MESA****OIL, Inc.****RECYCLING MANIFEST / RECEIPT****56253**

SERVICE CALL #

047929

**GENERATOR**

Generator Name

HP ENVIRONMENTAL SERVICES

Contact

MIKE

Pickup Address

4600 Humboldt

Phone

303-461-0075

City

DENVER

State

CO

Zip

80202

Mailing Address

PO BOX 1156

City

COMMERCE CITY

State

CO

Zip

80022

| RECYCLING SERVICE        | QUANTITY/UNIT | PRICE/UNIT | TOTAL  |
|--------------------------|---------------|------------|--------|
| USED OIL REMOVAL         |               |            |        |
| OILY WATER REMOVAL       |               |            |        |
| USED ANTI FREEZE REMOVAL |               |            |        |
| USED FILTER REMOVAL      |               |            |        |
| DIESEL                   | 990           | 20 GAL     | 198.00 |
|                          | 1.5           | 150.00     | 225.00 |

FORM OF PAYMENT

CASH

CHECK #

CHARGE

P.O. #

CUST. #

CREDIT APPLICATION

NO.

SALES TAX

TOTAL DUE  
MESA OIL

\$423.00

TERMS: NET 30 DAYS

INVOICE TO FOLLOW

TESTED FOR HALOGENS BY:

Curt Johnson

SPECIAL INSTRUCTIONS

1/2000 TR DIESEL

CHARGE PER ANITA

**GENERATORS CERTIFICATION:**

This material is described to the best of my ability. This material has not been mixed with PCB's or hazardous waste listed in 40 C.F.R. part 26

Printed / Typed Name

Signature

Date

**TRANSPORTER, STORER AND RECYCLER**

MESA OIL, INC.

EPA # NMD 007109085

4701 Broadway SE

TEXAS TWC ID# 40849

Albuquerque, NM 87105

(505) 877-8855

MESA OIL, INC.

EPA #COD 983772955

17300 HWY 72

Golden, CO 80403

(303) 940-0652

**IN CASE OF  
SPILL CONTACT:  
MESA OIL, INC.  
1-800-USED OIL**

**TRANSPORTER ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS**

Printed / Typed Name

Signature

Date

**TREATMENT FACILITY OPERATOR**

The described materials were handled by me, the treatment facility named above, and were accepted.

Printed / Typed Name

Signature

Date

**MESA****RECYCLING MANIFEST / RECEIPT****56224****OIL, Inc.**

DATE

6-27-94

SERVICE CALL #

04-929

GENERATOR

Generator Name

H.P. Environmental Services

Contact

Mike

Pickup Address

4600 Homestead

Phone

303 411 5045

City

Durham

State

NC

Zip

9977

Billing Address

P.O. Box

1156

City

Greensboro, NC

State

NC

Zip

27402

RECYCLING SERVICE

QUANTITY/UNIT

PRICE/UNIT

TOTAL

USED OIL REMOVAL

3313

OILY WATER REMOVAL

USED ANTI FREEZE REMOVAL

USED FILTER REMOVAL

DIESEL

3313

15.00

4962.40

TLK Time

2

15.00

300.00

FORM OF PAYMENT

CASH

CHECK #

CHARGE

P.O. #

CUST. #

CREDIT APPLICATION

NO.

TERMS: NET 30 DAYS

INVOICE TO FOLLOW

TESTED FOR HALOGENS BY

SPECIAL INSTRUCTIONS

GENERATORS CERTIFICATION:

This material is described to the best of my ability. This material has not been mixed with PCB's or hazardous waste listed in 40 C.F.R. part 26:

Printed / Typed Name

Signature

Date

**TRANSPORTER, STORER AND RECYCLER**

MESA OIL, INC.

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SPILL CONTACT:  
MESA OIL, INC.  
1-800-USED OIL****TRANSPORTER ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS**

Printed / Typed Name

Signature

Date

**TREATMENT FACILITY OPERATOR**

The described materials were handled by me, the treatment facility named above, and were accepted.

Printed / Typed Name

Signature

Date

White - Return to Generator

Green - Office

Yellow - Collection

Pink - Plant

Goldenrod - Generator Copy

BPS FORM 3

\*\* TOTAL PAGE.002 \*\*

# Waste Management Manifest

MANIFEST # **A 01731**

## GENERATOR

BILL TO: Denver - EVSGENERATOR: SAMEBILLING ADDRESS: 211 11th St. Ste. 1500MAILING ADDRESS: SAMEACCOUNT # to be set up by C. R. MillerPHONE #: 303-640-3234

| DESCRIPTION OF MATERIALS     | PROFILE NUMBER | QTY          | UNIT OF MEASURE       |
|------------------------------|----------------|--------------|-----------------------|
| <u>Petroleum - waste oil</u> | <u>1471-37</u> | <u>18</u>    | <u>yd<sup>3</sup></u> |
|                              |                | <u>18300</u> |                       |

I hereby declare that the above-described materials are NOT hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, that they have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Linda A. Berner  
Authorized Agent (print name)Linda A. Berner  
Signature  
6-27-94  
Date

## TRANSPORTER

NAME: Mountain PacificTRUCK # 10021ADDRESS: 7705 Guncub Road

STREET

Denver CO

CITY

STATE

ZIP

Tony Munday  
Driver Name (print)Tony Munday  
Signature  
6-27  
Date

## DESTINATION

NAME: Denver Arapahoe Disposal SitePHONE # (303) 690-4303ADDRESS: 3500 South Guncub Road

STREET

Aurora  
CITYCO  
STATE80013  
ZIPDISCREPANCIES: 1826.12

I hereby acknowledge receipt of the above described materials.

GATE RECEIPT # 1041310Laura Kiedel  
Authorized Agent (print name)Laura Kiedel  
Signature  
6/27/94  
Date

## DISTRIBUTION

ORIGINAL - RETURN TO GENERATOR UPON COMPLETIONGREEN - DESTINATION COPYCANARY - TRANSPORTER COPY 1PINK - TRANSPORTER COPY 2GOLDENROD - GENERATOR COPY 1



# Waste Shipment Manifest

MANIFEST #

**A 01792**

## GENERATOR

BILL TO: CITY OF DENVER - EVSGENERATOR: CAMPBILLING ADDRESS: 216 1/2 St. 5th 1500MAILING ADDRESS: SAIFACCOUNT # 003692PHONE #: 303-690-3234

| DESCRIPTION OF MATERIALS | PROFILE NUMBER | QTY       | UNIT OF MEASURE |
|--------------------------|----------------|-----------|-----------------|
| <u>As - random soil</u>  | <u>149639</u>  | <u>18</u> | <u>cu yd</u>    |
|                          |                |           |                 |
|                          |                |           |                 |

I hereby declare that the above-described materials are NOT hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, that they have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Authorized Agent (print name) INDRA A. BETHELSignature [Signature]Date 6-27-94

## TRANSPORTER

NAME: MONTOYA BROS.TRUCK # 71-7ADDRESS: 7295 QUINCY

STREET

DENVER

CITY

COLO

STATE

ZIP

DON VIGIL

Driver Name (print)

Signature [Signature]Date 6-27-94

## DESTINATION

NAME: Denver Arapahoe Disposal SitePHONE # (303) 690-4303ADDRESS: 3500 South Guncub Road

STREET

Aurora

CITY

CO

STATE

80013

ZIP

DISCREPANCIES: 182609

I hereby acknowledge receipt of the above described materials.

GATE RECEIPT [Signature]Authorized Agent (print name) [Signature]Signature [Signature]Date 6/27/94

## DISTRIBUTION

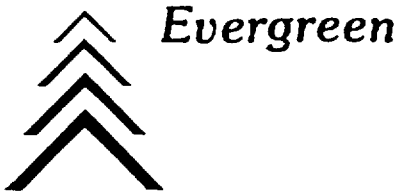
ORIGINAL - RETURN TO GENERATOR UPON COMPLETION

GREEN - DESTINATION COPY

CANARY - TRANSPORTER COPY 1

PINK - TRANSPORTER COPY 2

GOLDENROD - GENERATOR COPY 1



May 31, 1994

MS LISA GRAVES  
ENVIRONMENTAL CHEMISTRY SERVICES  
7108 S ALTON WAY BLDG E  
ENGLEWOOD CO 80112

Data Report : 94-1737  
Client Project : PIN012

Dear Ms. Graves:

Enclosed are the analytical results for the samples shown in the Sample Log Sheet. The enclosed data have been reviewed for quality assurance. If you have any questions concerning the reported information, please contact Carl Smits, Vice President of Quality Assurance, or me.

**Please Note:** Samples marked for return on the Sample Log Sheet are considered hazardous, unsuitable for municipal disposal or were placed on hold at your request. Samples considered hazardous or unsuitable for municipal disposal will be returned to you immediately. Samples placed on hold will be returned and samples not considered hazardous will be disposed of one (1) month from the date of this letter.

The invoice for this work will be mailed to your Accounts Payable department shortly.

Thank you for using the services of Evergreen Analytical.

Sincerely,

*J H Barney / corr*  
Jack Barney  
President

JJ

**Project # 94-1737**

**Date Due:** 5-31-94

Holding Time(s): - -

Rush STANDARD

Shipping Charges N/A

E.A. Cooler # N/A

**Airbill # HD**

**Custody Seal Intact?**

|        |         |
|--------|---------|
| Cooler | Bottles |
|--------|---------|

**COC Present** **Y**

Sample Tags Present? Y

|                     |   |
|---------------------|---|
| Sample Tags Listed? | Y |
|---------------------|---|

| Sample(s) | Sealed? | Y |
|-----------|---------|---|
| 1         |         |   |
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| 98        |         |   |
| 99        |         |   |
| 100       |         |   |

Special Invoicing/Billing

### Special Instructions

|      |         |              |   |   |   |
|------|---------|--------------|---|---|---|
| 697B | COLIS-1 | IGNITABILITY | " | " | " |
|------|---------|--------------|---|---|---|

te GC/MS      GC      Metals 2 Wet Chem 2 SxPrep      Acctg 1

SxRec   C     Adm     C     QA/QC     C     Sales   C     File   Orig

**Environmental Chemistry Services, Inc.**  
7108 S. Alton Way, Bldg. E  
Englewood, CO 80112  
303-850-7606

Date & Time Rec'd: 5/16/94 9:30 Shipped Via: FTL  
(Airbill # if applicable)

Client: ECS

Client Project ID(s): P10012

EAL Project #(s): 94-1737 EAL Cooler(s):

☒ Y ☒ N

Cooler# \_\_\_\_\_

Ice packs ☒ Y ☐ N ☐ Y ☐ N ☐ Y ☐ N ☐ Y ☐ N

Temperature °C \_\_\_\_\_

|  | Y                       | N                       | N/A                              |
|--|-------------------------|-------------------------|----------------------------------|
| 1. Custody seal(s) present:<br>Seals on cooler intact<br>Seals on bottle intact  | _____                   | <u>h</u>                | <u>h</u>                         |
| 2. Chain of Custody present:   | <u>h</u>                | _____                   | _____                            |
| 3. Containers broken or leaking:<br>(Comment on COC if Y)  | _____                   | <u>X</u>                | _____                            |
| 4. Containers labeled:   | <u>X</u>                | _____                   | _____                            |
| 5. COC agrees w/ bottles received:<br>(Comment on COC if N)  | <u>X</u>                | _____                   | _____                            |
| 6. COC agrees w/ labels:<br>(Comment on COC if N)  | <u>X</u>                | _____                   | _____                            |
| 7. Headspace in VOA vials-waters only<br>(comment on COC if Y)   | _____                   | _____                   | <u>X</u>                         |
| 8. VOA samples preserved:  | _____                   | _____                   | <u>X</u>                         |
| 9. pH measured on metals, cyanide or phenolics*:<br>List discrepancies _____<br>*Non-EAL provided containers only, water samples only. | _____                   | _____                   | <u>X</u>                         |
| 10. Dissolved metals samples present:<br>To be preserved:<br>To be filtered:   | _____<br>_____<br>_____ | _____<br>_____<br>_____ | <u>X</u><br><u>X</u><br><u>X</u> |
| 11. Short holding times:<br>Specify parameters _____   | _____                   | <u>X</u>                | _____                            |
| 12. Multi-phase sample(s) present:   | _____                   | <u>X</u>                | _____                            |
| 13. COC signed w/ date/time:   | <u>X</u>                | _____                   | _____                            |

Comments: \_\_\_\_\_

(Additional comments on back)

Custodian Signature/Date: J Smith 5/16/94

EVERGREEN ANALYTICAL, INC.  
4036 Youngfield St. Wheat Ridge, CO 80033  
(303) 425-6021

TCLP, METALS

|                          |                         |
|--------------------------|-------------------------|
| Date Sampled :5/12/94    | Client Project :PIN012  |
| Date Received:5/16/94    | Lab Project No.:94-1737 |
| Date Prepared:5/17,18/94 | Method :40 CFR 261.24   |
| Date Analyzed:5/25,31/94 | Matrix :Soil            |

Units: mg/L

Client  
Sample# COLIS-1

Evergreen  
Sample# X87697A

TCLP  
LIMITS

|    |         |       |
|----|---------|-------|
| As | < 0.29  | 5.0   |
| Ba | 1.3     | 100.0 |
| Cd | < 0.025 | 1.0   |
| Cr | < 0.08  | 5.0   |
| Pb | < 0.28  | 5.0   |
| Se | < 0.36  | 1.0   |
| Ag | < 0.5   | 5.0   |
| Hg | <0.0002 | 0.2   |

NOTE: Results are reported on the leachate from the TCLP extraction.

DC  
Analyst

Carbanti  
Approved

EVERGREEN ANALYTICAL INC.  
4036 Youngfield St. Wheat Ridge, CO 80033  
(303) 425-6021

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

SUMMARY REPORT

Client Sample ID: COLIS-1  
Sample No. : X87697A  
Date Sampled : 5/12/94  
Date Received : 5/16/94

Client Project ID.: PIN012  
Lab Project No. : 94-1737  
Matrix : Soil

| Element/Compound | Spike Recovery*<br>% | As Analyzed Value**<br>mg/L | Regulatory levels***<br>mg/L |
|------------------|----------------------|-----------------------------|------------------------------|
| Arsenic          | 57                   | < 0.29                      | 5.0                          |
| Barium           | 79                   | 1.3                         | 100.0                        |
| Cadmium          | 88                   | < 0.025                     | 1.0                          |
| Chromium         | 77                   | < 0.08                      | 5.0                          |
| Lead             | 88                   | < 0.28                      | 5.0                          |
| Selenium         | 91                   | < 0.36                      | 1.0                          |
| Silver           | 168                  | < 0.5                       | 5.0                          |
| Mercury          | 106                  | < 0.0002                    | 0.2                          |

Qualifiers:

- = Not Requested
- = attached Data Reports for information regarding analytical procedures and a quality control.
- = Spikes are performed once for each similar matrix (water, soil, etc.) and extraction set
- = Not corrected for Spike Recovery per Federal Register, Vol. 57, No. 227, Nov. 24, 1992. Method Blank values have not been subtracted.
- = 40 CFR 261.24 (7-1-92 Edition), Table 1-Maximum concentration of Contaminants for the Toxicity Characteristics.

  
Approved

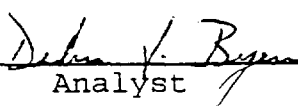
EVERGREEN ANALYTICAL, INC.  
4036 Youngfield St. Wheat Ridge, CO 80033  
(303) 425-6021

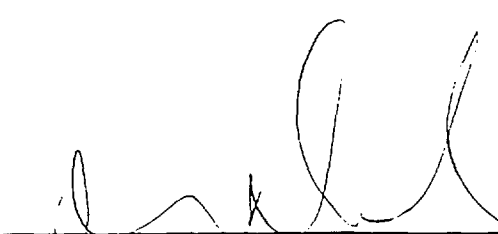
Miscellaneous Analyses

Date Sampled : 5/12/94  
Date Received : 5/16/94  
Client Sample ID.: Colis-1  
Lab Sample No. : X87697

Client Project ID. : PIN012  
Lab Project No. : 94-1737  
Matrix : Soil

| <u>Analysis</u>              | <u>Result</u> | <u>Date Prepared</u> | <u>Date Analyzed</u> | <u>Method</u>                                     |
|------------------------------|---------------|----------------------|----------------------|---|
| Ignitability                 | Non-ignitable | 5/25/94              | 5/25/94              | SW846 1010  |
| Flashpoint<br>(°F @ 620mmHg) | >140          |                      |                      | Using Pensky-<br>Martens closed<br>cup apparatus. |

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



July 1, 1994

Ms. Lauren Evans  
Pinyon Environmental Engineering Resources, Inc.  
1075 S. Yukon, Suite 320  
Lakewood, CO 80226

RE: ECS Project #PIN018

Dear Lauren:

Enclosed are the BTEX and TEPH results for the Pinyon Project #94-07-13.11 soil samples we received on June 27.

The samples were analyzed for BTEX by purge and trap concentration (EPA Method 5030) combined with gas chromatography (GC) as described in EPA Method 8020. The surrogate standard was added to all samples to monitor purging efficiency. The sample results and the quality control results can be found in Table 1.

The low surrogate recovery for Sample DEN-COL-EX-1 is a matrix effect, as demonstrated by the duplicate results. The performance of the instrument was checked by the analysis of a blank and/or standard. The sample had to be diluted when analyzed for BTEX due to the presence of diesel range hydrocarbons.

The samples were analyzed for total extractable petroleum hydrocarbons (TEPH) by the Colorado 8015 Modified Method which measures the diesel range hydrocarbons from  $C_{11}$  -  $C_{28}$ . The samples were extracted with hexane using vortex mixing, sonic agitation, and centrifuging. The extracts were analyzed by gas chromatography with a flame ionization detector. The surrogate standard was added to monitor extraction efficiency. The sample results are reported in Table 2 with the quality control results.

Please call if you have any questions.

Sincerely,



John Graves  
Technical Director

July 1, 1994

ENVIRONMENTAL CHEMISTRY SERVICES, INC.  
7108 S. Alton Way, Bldg. E  
Englewood, CO 80112  
(303) 850-7606

TABLE 1

|                   |             |                 |              |
|-------------------|-------------|-----------------|--------------|
| ECS Project #:    | PIN018      | Date Received:  | 6/27/94      |
| Pinyon Project #: | 94-07-13.11 | Date Sampled:   | 6/27/94      |
| Method #:         | EPA 8020    | Date Extracted: | n/a          |
| Matrix:           | Soil        | Date Analyzed:  | 6/29-6/30/94 |
| Units:            | mg/kg (ppm) |                 |              |

| SAMPLE RESULTS |                         |            |            |                   |            |
|----------------|-------------------------|------------|------------|-------------------|------------|
| Sample #       | Surrogate<br>% Recovery | Benzene    | Toluene    | Ethyl-<br>benzene | Xylene     |
| DC-COMP 1      | 68                      | ND         | ND         | ND                | 0.0035     |
| DEN-COL-EX-1   | 61                      | ND (0.010) | ND (0.010) | ND (0.010)        | ND (0.010) |
| DEN-COL-EX-2   | 69                      | ND         | ND         | ND                | ND         |

ND = Not detected at levels exceeding the reporting detection limit.  
The number in parentheses is the detection limit when the sample was diluted.

| QUALITY CONTROL RESULTS              |                         |             |             |                   |            |
|--------------------------------------|-------------------------|-------------|-------------|-------------------|------------|
|                                      | Surrogate<br>% Recovery | Benzene     | Toluene     | Ethyl-<br>benzene | Xylene     |
| DEN-COL-EX-1 Dupl.                   | 63                      | ND (0.020)  | ND (0.020)  | ND (0.020)        | ND (0.020) |
| LCS Spike<br>% Recovery              | 81<br>-                 | 0.089<br>89 | 0.089<br>89 | 0.094<br>94       | 0.28<br>93 |
| Matrix Spike<br>% Recovery           | 81<br>-                 | 0.089<br>89 | 0.088<br>88 | 0.094<br>94       | 0.27<br>92 |
| Matrix Spike Duplicate<br>% Recovery | 87<br>-                 | 0.093<br>91 | 0.091<br>91 | 0.098<br>98       | 0.29<br>95 |
| Spike % Difference                   | -                       | 4           | 3           | 4                 | 3          |
| Blank                                | 83                      | ND          | ND          | ND                | ND         |
| Detection Limit                      | -                       | 0.002       | 0.002       | 0.002             | 0.002      |

July 1, 1994

ENVIRONMENTAL CHEMISTRY SERVICES, INC.  
7108 S. Alton Way, Bldg. E  
Englewood, CO 80112  
(303) 850-7606

TABLE 2

|                   |                 |                 |         |
|-------------------|-----------------|-----------------|---------|
| ECS Project #:    | PIN018          | Date Received:  | 6/27/94 |
| Pinyon Project #: | 94-07-13.11     | Date Sampled:   | 6/27/94 |
| Method #:         | Colo. 8015 Mod. | Date Extracted: | 6/28/94 |
| Matrix:           | Soil            | Date Analyzed:  | 6/28/94 |
| Units:            | mg/kg (ppm)     |                 |         |

| SAMPLE RESULTS |                         |   |
|----------------|-------------------------|---|
| Sample #       | Surrogate<br>% Recovery | Total Extractable<br>Petroleum Hydrocarbons |
| DC-COMP 1      | 96                      | ND  |
| DEN-COL-EX-1   | Interference            | 250   |
| DEN-COL-EX-2   | 98                      | ND  |

ND = Not detected at levels exceeding the reporting detection limit.

| QUALITY CONTROL RESULTS   |                         |   |
|---------------------------|-------------------------|---|
|                           | Surrogate<br>% Recovery | Total Extractable<br>Petroleum Hydrocarbons |
| LCS Spike                 | -                       | 200   |
| % Recovery                | -                       | 80  |
| DC-COMP 1 Spike           | -                       | 200   |
| % Recovery                | -                       | 83  |
| DC-COMP 1 Spike Duplicate | -                       | 200   |
| % Recovery                | -                       | 80  |
| Spike % Difference        | -                       | 4   |
| Blank                     | 92                      | ND  |
| Detection Limit           | -                       | 10  |

FAX TRANSMITTAL

DATE: 7.27.94  
TO: Tom Luther  
COMPANY: Pineco  
FROM: Peggy

PAGES SENT INCLUDING COVER SHEET: 4

MESSAGE: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_ ORIGINAL WILL BE MAILED

July 7, 1994

Ms. Lauren Evans  
Pinyon Environmental Engineering Resources, Inc.  
1075 S. Yukon Street  
Lakewood, Colorado 80226

*Coliseum*

RE: ECS Project #PIN019

Dear Lauren:

Enclosed are the BTEX and TEPH results for the Pinyon Project #1/94-07-13.11 soil sample we received on June 30.

The sample was analyzed for BTEX by purge and trap concentration (EPA Method 5030) combined with gas chromatography (GC) as described in EPA Method 8020. The surrogate standard was added to all samples to monitor purging efficiency. The sample results and the quality control results can be found in Table 1.

The sample was analyzed for total extractable petroleum hydrocarbons (TEPH) by the Colorado 8015 Modified Method which measures the diesel range hydrocarbons from  $C_{11}$  -  $C_{28}$ . The sample was extracted with hexane using vortex mixing, sonic agitation, and centrifuging. The extracts were analyzed by gas chromatography with a flame ionization detector. The surrogate standard was added to monitor extraction efficiency. The sample results are reported in Table 2 with the quality control results.

Please call if you have any questions.

Sincerely,



John Graves  
Technical Director

July 7, 1994

ENVIRONMENTAL CHEMISTRY SERVICES, INC.  
7108 S. Alton Way, Bldg. E  
Englewood, CO 80112  
(303) 850-7606

TABLE 1

|                   |               |                 |         |
|-------------------|---------------|-----------------|---------|
| ECS Project #:    | PIN019        | Date Received:  | 6/30/94 |
| Pinyon Project #: | 1/94-07-13.11 | Date Sampled:   | 6/30/94 |
| Method #:         | EPA 8020      | Date Extracted: | n/a     |
| Matrix:           | Soil          | Date Analyzed:  | 7/6/94  |
| Units:            | mg/kg (ppm)   |                 |         |

| SAMPLE RESULTS |                         |         |         |                   |        |
|----------------|-------------------------|---------|---------|-------------------|--------|
| Sample #       | Surrogate<br>% Recovery | Benzene | Toluene | Ethyl-<br>benzene | Xylene |
| EG-1           | 86                      | ND      | ND      | ND                | ND     |

ND = Not detected at levels exceeding the reporting detection limit.

| QUALITY CONTROL RESULTS              |                         |             |             |                   |            |
|--------------------------------------|-------------------------|-------------|-------------|-------------------|------------|
|                                      | Surrogate<br>% Recovery | Benzene     | Toluene     | Ethyl-<br>benzene | Xylene     |
| LCS Spike<br>% Recovery              | 84<br>-                 | 0.090<br>90 | 0.089<br>89 | 0.095<br>95       | 0.28<br>92 |
| Matrix Spike<br>% Recovery           | 78<br>-                 | 0.080<br>80 | 0.079<br>79 | 0.084<br>84       | 0.24<br>82 |
| Matrix Spike Duplicate<br>% Recovery | 73<br>-                 | 0.076<br>76 | 0.074<br>74 | 0.078<br>78       | 0.23<br>76 |
| Spike % Difference                   | -                       | 5           | 5           | 7                 | 8          |
| Blank                                | 87                      | ND          | ND          | ND                | ND         |
| Detection Limit                      | -                       | 0.002       | 0.002       | 0.002             | 0.002      |

July 7, 1994

ENVIRONMENTAL CHEMISTRY SERVICES, INC.  
7108 S. Alton Way, Bldg. E  
Englewood, CO 80112  
(303) 850-7606

TABLE 2

|                   |                 |                 |         |
|-------------------|-----------------|-----------------|---------|
| ECS Project #:    | PIN019          | Date Received:  | 6/30/94 |
| Pinyon Project #: | 1/94-07-13.11   | Date Sampled:   | 6/30/94 |
| Method #:         | Colo. 8015 Mod. | Date Extracted: | 7/1/94  |
| Matrix:           | Soil            | Date Analyzed:  | 7/5/94  |
| Units:            | mg/kg (ppm)     |                 |         |

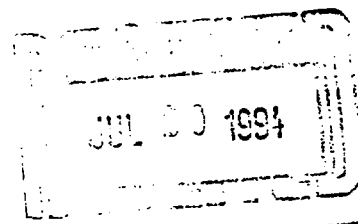
| SAMPLE RESULTS |                         |   |
|----------------|-------------------------|---|
| Sample #       | Surrogate<br>% Recovery | Total Extractable<br>Petroleum Hydrocarbons |
| EG-1           | 85                      | ND  |

ND = Not detected at levels exceeding the reporting detection limit.

| QUALITY CONTROL RESULTS |                         |   |
|-------------------------|-------------------------|---|
|                         | Surrogate<br>% Recovery | Total Extractable<br>Petroleum Hydrocarbons |
| LCS Spike               | -                       | 200   |
| % Recovery              | -                       | 80  |
| Matrix Spike            | -                       | 200   |
| % Recovery              | -                       | 83  |
| Matrix Spike Duplicate  | -                       | 200   |
| % Recovery              | -                       | 80  |
| Spike % Difference      | -                       | 4   |
| Blank                   | 87                      | ND  |
| Detection Limit         | -                       | 10  |







July 19, 1994

Mr. Thomas Lutherer  
Pinyon Environmental Engineering Resources, Inc.  
1075 S. Yukon, Suite 320  
Lakewood, Colorado 80226

RE: ECS Project #PIN023

Dear Mr. Lutherer:

Enclosed are the BTEX and TEPH results for the Pinyon Project #94-07-13.11 soil samples we received on July 14.

The samples were analyzed for BTEX by purge and trap concentration (EPA Method 5030) combined with gas chromatography (GC) as described in EPA Method 8020. The surrogate standard was added to all samples to monitor purging efficiency. The sample results and the quality control results can be found in Table 1.

The samples were analyzed for total extractable petroleum hydrocarbons (TEPH) by the Colorado 8015 Modified Method which measures the diesel range hydrocarbons from C<sub>11</sub> - C<sub>28</sub>. The samples were extracted with hexane using vortex mixing, sonic agitation, and centrifuging. The extracts were analyzed by gas chromatography with a flame ionization detector. The surrogate standard was added to monitor extraction efficiency. The sample results are reported in Table 2 with the quality control results.

Please call if you have any questions.

Sincerely,

John Graves  
Technical Director

July 19, 1994

ENVIRONMENTAL CHEMISTRY SERVICES, INC.  
7108 S. Alton Way, Bldg. E  
Englewood, CO 80112  
(303) 850-7606

TABLE 1

|                   |             |                 |         |
|-------------------|-------------|-----------------|---------|
| ECS Project #:    | PIN023      | Date Received:  | 7/14/94 |
| Pinyon Project #: | 94-07-13.11 | Date Sampled:   | 7/13/94 |
| Method #:         | EPA 8020    | Date Extracted: | n/a     |
| Matrix:           | Soil        | Date Analyzed:  | 7/18/94 |
| Units:            | mg/kg (ppm) |                 |         |

| SAMPLE RESULTS |                         |         |         |                   |        |
|----------------|-------------------------|---------|---------|-------------------|--------|
| Sample #       | Surrogate<br>% Recovery | Benzene | Toluene | Ethyl-<br>benzene | Xylene |
| CO-1-20        | 89                      | ND      | ND      | ND                | ND     |
| CO-2-14        | 75                      | ND      | ND      | ND                | 0.0021 |
| CO-2-19        | 86                      | ND      | ND      | ND                | ND     |
| CO-3-9         | 73                      | ND      | ND      | ND                | ND     |
| CO-4-10        | 76                      | ND      | ND      | ND                | ND     |
| CO-5-19        | 78                      | ND      | ND      | ND                | ND     |
| CO-6-19        | 69                      | ND      | ND      | ND                | ND     |

ND = Not detected at levels exceeding the reporting detection limit.

| QUALITY CONTROL RESULTS              |                         |             |             |                   |             |
|--------------------------------------|-------------------------|-------------|-------------|-------------------|-------------|
|                                      | Surrogate<br>% Recovery | Benzene     | Toluene     | Ethyl-<br>benzene | Xylene      |
| LCS Spike<br>% Recovery              | 97<br>-                 | 0.10<br>101 | 0.10<br>100 | 0.11<br>107       | 0.31<br>103 |
| Matrix Spike<br>% Recovery           | 81<br>-                 | 0.080<br>80 | 0.081<br>81 | 0.086<br>86       | 0.25<br>84  |
| Matrix Spike Duplicate<br>% Recovery | 86<br>-                 | 0.084<br>84 | 0.085<br>85 | 0.093<br>93       | 0.27<br>89  |
| Spike % Difference                   | -                       | 5           | 5           | 8                 | 6           |
| Blank                                | 94                      | ND          | ND          | ND                | ND          |
| Detection Limit                      | -                       | 0.002       | 0.002       | 0.002             | 0.002       |

July 19, 1994

ENVIRONMENTAL CHEMISTRY SERVICES, INC.  
7108 S. Alton Way, Bldg. E  
Englewood, CO 80112  
(303) 850-7606

TABLE 2

|                   |                 |                 |         |
|-------------------|-----------------|-----------------|---------|
| ECS Project #:    | PIN023          | Date Received:  | 7/14/94 |
| Pinyon Project #: | 94-07-13.11     | Date Sampled:   | 7/13/94 |
| Method #:         | Colo. 8015 Mod. | Date Extracted: | 7/14/94 |
| Matrix:           | Soil            | Date Analyzed:  | 7/14/94 |
| Units:            | mg/kg (ppm)     |                 |         |

| SAMPLE RESULTS |                         |   |
|----------------|-------------------------|---|
| Sample #       | Surrogate<br>% Recovery | Total Extractable<br>Petroleum Hydrocarbons |
| CO-1-20        | 89                      | ND  |
| CO-2-14        | 92                      | ND  |
| CO-2-19        | 91                      | ND  |
| CO-3-9         | 89                      | ND  |
| CO-4-10        | 91                      | ND  |
| CO-5-19        | 90                      | ND  |
| CO-6-19        | 89                      | ND  |

ND = Not detected at levels exceeding the reporting detection limit.

| QUALITY CONTROL RESULTS               |                         |   |
|---------------------------------------|-------------------------|---|
|                                       | Surrogate<br>% Recovery | Total Extractable<br>Petroleum Hydrocarbons |
| LCS Spike<br>% Recovery               | -<br>-                  | 200<br>81                                   |
| CO-1-20 Spike<br>% Recovery           | -<br>-                  | 190<br>76                                   |
| CO-1-20 Spike Duplicate<br>% Recovery | -<br>-                  | 190<br>77                                   |
| Spike % Difference                    | -                       | 1   |
| Blank                                 | 89                      | ND  |
| Detection Limit                       | -                       | 10  |



**REQUESTED  
TURNAROUND TIME:**

**Environmental Chemistry Services, Inc.**  
7108 S. Alton Way, Bldg. E  
Englewood, CO 80112  
303-850-7606


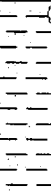

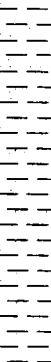



Pinyon Environmental  
Engineering Resources, Inc.

## Log of Boring CO-1

PROJECT: *Caliseum*  
PROJECT NO.: *1/94-07-13.11*  
DATE STARTED: *7/13/94*  
DATE FINISHED: *7/13/94*  
DRILLING METHOD: *4-1/4" HSA, Continuous Sampler*  
DRILLING COMPANY: *Site Services*


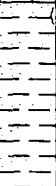

LOCATION: *Denver, Colorado*  
SURFACE ELEVATION: *ft. MSL*  
INITIAL H2O LEVEL: *19 ft. BGS*  
FINAL H2O LEVEL: *ft. BGS*  
TOTAL DEPTH: *20.5 Feet*  
GEOLOGIST: *Lauren Evans*

| DEPTH<br>feet | SAMPLE NO. | BLOWS/FT. | PID (ppm) |         | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION  | REMARKS |
|---------------|------------|-----------|-----------|---------|-------------|------------|---|---------|
|               |            |           | VALUES    | PROFILE |             |            |   |         |
|               |            |           | 1         | 100     |             |            |   |         |
|               |            |           | 0         |         |             | (SM)       | Sand, fine grained to gravel; silty, low plasticity; moist.         |         |
|               |            |           | 0         |         |             | (SC/SM)    | Sand, fine grained to gravel; silt and clay, low plasticity; moist. |         |
|               |            |           | 0         |         |             | (SM)       | Sand, fine grained to gravel; silty, low plasticity; moist.         |         |
|               |            |           | 0         |         |             | (SM)       | Sand, fine grained to gravel, well graded; wet.                     |         |
|               |            |           | 8.6       |         |             | (SM)       | Bottom of Boring  |         |

| Pinyon Environmental<br>Engineering Resources, Inc.    |            |           |           |   |   |            | Log of Boring C0-2   |         |
|--|------------|-----------|-----------|---|---|------------|--|---------|
| PROJECT: <i>Coliseum</i>                               |            |           |           |   |   |            | LOCATION: <i>Denver, Colorado</i>  |         |
| PROJECT NO.: <i>1/94-07-13.11</i>                      |            |           |           |   |   |            | SURFACE ELEVATION: <i>ft. MSL</i>  |         |
| DATE STARTED: <i>7/13/94</i>                           |            |           |           |   |   |            | INITIAL H2o LEVEL: <i>18.5 ft. BGS</i>   |         |
| DATE FINISHED: <i>7/13/94</i>                          |            |           |           |   |   |            | FINAL H2o LEVEL: <i>ft. BGS</i>  |         |
| DRILLING METHOD: <i>4-1/4" HSA, Continuous Sampler</i> |            |           |           |   |   |            | TOTAL DEPTH: <i>19 Feet</i>  |         |
| DRILLING COMPANY: <i>Site Services</i>                 |            |           |           |   |   |            | GEOLOGIST: <i>Lauren Evans</i>   |         |
| DEPTH<br>feet  | SAMPLE NO. | BLOWS/FT. | PID (ppm) |   | GRAPHIC LOG   | SOIL CLASS | GEOLOGIC DESCRIPTION   | REMARKS |
|  |            |           | VALUES    | PROFILE   |   |            |  |         |
|  |            |           | 0         |   |    | (SM)       | Silt, low plasticity; very sandy, fine to coarse grained; dry.                 |         |
| 5  |            |           | 0         |   |    | (SM/SC)    | Sand, fine grained to gravel; interbedded silty layers, low plasticity, moist. |         |
| 10   |            |           | 58        |   |   |            |  |         |
| 15   | CO-2-14    |           | 47        |  |  |            |  |         |
| 20   | CO-2-19    |           |           |   |  | (SW)       | Sand, fine grained to gravel, well graded; wet.<br>Bottom of Boring            |         |
| 25   |            |           |           |   |   |            |  |         |
| 30   |            |           |           |   |   |            |  |         |
| 35   |            |           |           |   |   |            |  |         |



| Pinyon Environmental<br>Engineering Resources, Inc.    |            |           |           |         |             | Log of Boring C0-3                |  |         |
|--|------------|-----------|-----------|---------|-------------|-----------------------------------|--|---------|
| PROJECT: <i>Coliseum</i>                               |            |           |           |         |             | LOCATION: <i>Denver, Colorado</i> |  |         |
| PROJECT NO.: <i>1/94-07-13.11</i>                      |            |           |           |         |             | SURFACE ELEVATION: <i>ft. MSL</i> |  |         |
| DATE STARTED: <i>7/13/94</i>                           |            |           |           |         |             | INITIAL H2o LEVEL: <i>ft. BGS</i> |  |         |
| DATE FINISHED: <i>7/13/94</i>                          |            |           |           |         |             | FINAL H2o LEVEL: <i>ft. BGS</i>   |  |         |
| DRILLING METHOD: <i>4-1/4" HSA, Continuous Sampler</i> |            |           |           |         |             | TOTAL DEPTH: <i>10 Feet</i>       |  |         |
| DRILLING COMPANY: <i>Site Services</i>                 |            |           |           |         |             | GEOLOGIST: <i>Lauren Evans</i>    |  |         |
| DEPTH<br>feet  | SAMPLE NO. | BLOWS/FT. | PID (ppm) |         | GRAPHIC LOG | SOIL CLASS                        | GEOLOGIC DESCRIPTION   | REMARKS |
|  |            |           | VALUES    | PROFILE |             |                                   |  |         |
| 5  | C0-3-9     |           | 8.4       |         |             | (SM)                              | Silt, low plasticity; very sandy, fine to coarse grained; dry.                         |         |
|  |            |           | 5.2       |         |             | (SM/SC)                           | Sand, fine grained to gravel; interbedded silty layers, low to medium plasticity; dry. |         |
|  |            |           | 37.8      |         |             |                                   | Bottom of Boring   |         |
| 10   |            |           |           |         |             |                                   |  |         |
| 15   |            |           |           |         |             |                                   |  |         |
| 20   |            |           |           |         |             |                                   |  |         |
| 25   |            |           |           |         |             |                                   |  |         |
| 30   |            |           |           |         |             |                                   |  |         |
| 35   |            |           |           |         |             |                                   |  |         |

| Pinyon Environmental<br>Engineering Resources, Inc.    |            |           |           |  |   | Log of Boring CO-4                |  |         |
|--|------------|-----------|-----------|--|---|-----------------------------------|--|---------|
| PROJECT: <i>Coliseum</i>                               |            |           |           |  |   | LOCATION: <i>Denver, Colorado</i> |  |         |
| PROJECT NO.: <i>1/94-07-13.11</i>                      |            |           |           |  |   | SURFACE ELEVATION: <i>ft. MSL</i> |  |         |
| DATE STARTED: <i>7/13/94</i>                           |            |           |           |  |   | INITIAL H2o LEVEL: <i>ft. BGS</i> |  |         |
| DATE FINISHED: <i>7/13/94</i>                          |            |           |           |  |   | FINAL H2o LEVEL: <i>ft. BGS</i>   |  |         |
| DRILLING METHOD: <i>4-1/4" HSA, Continuous Sampler</i> |            |           |           |  |   | TOTAL DEPTH: <i>10 Feet</i>       |  |         |
| DRILLING COMPANY: <i>Site Services</i>                 |            |           |           |  |   | GEOLOGIST: <i>Lauren Evans</i>    |  |         |
| DEPTH<br>feet  | SAMPLE NO. | BLOWS/FT. | PID (ppm) |  | GRAPHIC LOG   | SOIL CLASS                        | GEOLOGIC DESCRIPTION   | REMARKS |
|  |            |           | VALUES    | PROFILE  |   |                                   |  |         |
| 5  |            |           | 0         |  |  | (SM)                              | Silt, low plasticity; very sandy, fine to coarse grained; dry.                         |         |
|  |            |           | 2         |  |  | (SM/SC)                           | Sand, fine grained to gravel; interbedded silty layers, low to medium plasticity; dry. |         |
|  |            |           | 14.5      |  |   |                                   | Bottom of Boring   |         |
| 10   | CO-4-10    |           |           |  |   |                                   |  |         |
| 15   |            |           |           |  |   |                                   |  |         |
| 20   |            |           |           |  |   |                                   |  |         |
| 25   |            |           |           |  |   |                                   |  |         |
| 30   |            |           |           |  |   |                                   |  |         |
| 35   |            |           |           |  |   |                                   |  |         |

| Pinyon Environmental<br>Engineering Resources, Inc.    |            |           |           |         |             | Log of Boring C0-5                   |  |         |
|--|------------|-----------|-----------|---------|-------------|--------------------------------------|--|---------|
| PROJECT: <i>Coliseum</i>                               |            |           |           |         |             | LOCATION: <i>Denver, Colorado</i>    |  |         |
| PROJECT NO.: <i>1/94-07-13.11</i>                      |            |           |           |         |             | SURFACE ELEVATION: <i>ft. MSL</i>    |  |         |
| DATE STARTED: <i>7/13/94</i>                           |            |           |           |         |             | INITIAL H2o LEVEL: <i>19 ft. BGS</i> |  |         |
| DATE FINISHED: <i>7/13/94</i>                          |            |           |           |         |             | FINAL H2o LEVEL: <i>ft. BGS</i>      |  |         |
| DRILLING METHOD: <i>4-1/4" HSA, Continuous Sampler</i> |            |           |           |         |             | TOTAL DEPTH: <i>19.5 Feet</i>        |  |         |
| DRILLING COMPANY: <i>Site Services</i>                 |            |           |           |         |             | GEOLOGIST: <i>Lauren Evans</i>       |  |         |
| DEPTH<br>feet  | SAMPLE NO. | BLOWS/FT. | PID (ppm) |         | GRAPHIC LOG | SOIL CLASS                           | GEOLOGIC DESCRIPTION   | REMARKS |
|  |            |           | VALUES    | PROFILE |             |                                      |  |         |
| 5  |            |           | 0         |         |             | (SC)                                 | Sand, fine grained to gravel; silty, low to medium plasticity; dry.        |         |
|  |            |           | 2         |         |             |                                      |  |         |
| 10   |            |           | 14.5      |         |             |                                      |  |         |
| 15   |            |           | 15.8      |         |             |                                      |  |         |
| 20   | C0-5-19    |           |           |         |             | (SC/Sw)                              | Sand, fine grained to gravel; well sorted; silty; wet.<br>Bottom of Boring |         |
| 25   |            |           |           |         |             |                                      |  |         |
| 30   |            |           |           |         |             |                                      |  |         |
| 35   |            |           |           |         |             |                                      |  |         |

| Pinyon Environmental<br>Engineering Resources, Inc.    |            |           |           |         |             | Log of Boring CO-6                     |   |         |
|--|------------|-----------|-----------|---------|-------------|--|---|---------|
| PROJECT: <i>Coliseum</i>                               |            |           |           |         |             | LOCATION: <i>Denver, Colorado</i>      |   |         |
| PROJECT NO.: <i>1/94-07-13.11</i>                      |            |           |           |         |             | SURFACE ELEVATION: <i>ft. MSL</i>      |   |         |
| DATE STARTED: <i>7/13/94</i>                           |            |           |           |         |             | INITIAL H2o LEVEL: <i>18.5 ft. BGS</i> |   |         |
| DATE FINISHED: <i>7/13/94</i>                          |            |           |           |         |             | FINAL H2o LEVEL: <i>ft. BGS</i>        |   |         |
| DRILLING METHOD: <i>4-1/4" HSA, Continuous Sampler</i> |            |           |           |         |             | TOTAL DEPTH: <i>19.5 Feet</i>          |   |         |
| DRILLING COMPANY: <i>Site Services</i>                 |            |           |           |         |             | GEOLOGIST: <i>Lauren Evans</i>         |   |         |
| DEPTH<br>feet  | SAMPLE NO. | BLOWS/FT. | PID (ppm) |         | GRAPHIC LOG | SOIL CLASS                             | GEOLOGIC DESCRIPTION  | REMARKS |
|  |            |           | VALUES    | PROFILE |             |  |   |         |
|  |            |           |           |         |             |  |   |         |
|  |            |           | 0         |         |             | (SM)                                   | Sand, fine grained to gravel; silty, low to medium plasticity; dry. |         |
| 5  |            |           | 0         |         |             | (SC)                                   | Sand, fine grained, some gravel; clayey; dry.                       |         |
| 10   |            |           | 1.2       |         |             |  |   |         |
| 15   |            |           | 41        |         |             | (SC/SW)                                | Sand, fine grained to gravel; well sorted; silty; wet.              |         |
| 20   | CO-6-19    |           |           |         |             |  | Bottom of Boring  |         |
| 25   |            |           |           |         |             |  |   |         |
| 30   |            |           |           |         |             |  |   |         |
| 35   |            |           |           |         |             |  |   |         |



August 1, 1994

Ms. Carla Keith  
Pinyon Environmental  
1075 S. Yukon St., Ste. 320  
Lakewood, CO 80226

Re: Denver Coliseum  
4655 Humbolt St.  
Denver, Colorado

Here is ENTRAC's report on the above-referenced site. We hope you'll find it timely and useful.

**Before you review the report, please process the attached invoice immediately.** Our payment terms are unusually prompt, and may require special handling. Your help enables us to maintain our low prices and fast service, since it reduces the time spent on collection that detracts from generating reports.

Thank you for your assistance.

Sincerely,

A handwritten signature in black ink, appearing to read "Terry L. Jennings". The signature is stylized with a large, sweeping initial "T" and a long, horizontal stroke extending to the right.

Terry L. Jennings  
Environmental Historian

att.

**ENTRAC<sup>®</sup>**  
**Environmental Records Search**

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Subject Site:  
Denver Coliseum  
4655 Humbolt St.  
Denver, Colorado

Prepared for:  
Pinyon Environmental  
August 1, 1994

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**NOTICE TO INTERESTED PARTIES**

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As records search specialists, ENTRAC goes to great lengths to assure the accuracy of its reports. However, no search can guarantee against environmental risks or defects. Although ENTRAC corrects many mistakes in the agencies' records, no warranty is made of the accuracy, completeness, or timeliness of this information. A records search is not a substitute for a site assessment by an environmental consultant. Users assume any risks resulting from decisions based on this search. This report is subject to the limitations agreed to on ENTRAC's Order Form. No parties except the Client are authorized to review this report, unless they agree to waive any possible claims against ENTRAC arising from such use. Examination of this report thereby constitutes such agreement.

## PHYSICAL SETTING

### WATER WELL LIST

All permits for water wells and monitoring wells are listed on microfiche at the State Engineer's office. The list is sorted by Township and Section, and includes information on the well's use, depth to water, yield, etc. Copies of the list and the explanation of the codes are presented in the following pages. Those Sections within roughly 1/2 mile of the subject site have been highlighted.

For temporary monitoring holes, the State requires a Notice of Construction. These notices are identified by the activity code MH in field 5. For monitoring wells left in for more than a year, the state requires a permit. For these wells, the MH activity code is typically deleted, and they fall under the use code O (for Other) in field 9. Most wells with use code O are monitoring wells.

In addition to these microfiche listings, there are folders for each well that typically contain the well completion log, correspondence, etc. These folders are filed by permit number, and are available for inspection and copying at the State Engineer's Office, 1313 Sherman Street in Denver, 866-3587.

# Water Well Permits

## Page 1 of 4 Pages of Code Explanations

| COLORADO WELLS, APPLICATIONS, AND PERMITS |                        |      |    |          |        |    |    |     |          |        |       |      |       |       |           |             |      |    |      |       |
|---|------------------------|------|----|----------|--------|----|----|-----|----------|--------|-------|------|-------|-------|-----------|-------------|------|----|------|-------|
| COLORADO DIVISION OF WATER RESOURCES      |                        |      |    |          |        |    |    |     |          |        |       |      |       |       |           |             |      |    |      |       |
| 1   | 2                      | 3    | 4  | 5        | 6      | 7  | 8  | 9   | 10       | 11     | 12    | 13   | 14    | 15    | 16        | 17          | 18   | 19 | 20   | 21    |
| PERMIT                                    | D CO OWNER INFORMATION |      |    | ACTIVITY | STATUS |    |    |     | 1ST USED | ANNUAL | ACRES | GEOL | WELL  | WELL  | WATER SEC | LOCAT'N     | TOWN |    |      |       |
|   | CD                     | DATE | CD | DATE     | WD     | MD | DB | USE | DATE     | APROP  | IRR   | AQFR | YIELD | DEPTH | LEVEL     | COORDINATES | QTRS | SC | SHIP | RANGE |

1. Permit Number: required to locate permit documents in the Records Section files.
2. Division number of the Water Resources Region:  
7 Regions; 8 indicates well is in a Designated Ground Water Basin.
3. Code number for county: see Attachment 1 for explanation of code.
4. Owner and mailing address as reported to Ground Water Section.
5. Activity: See Attachment 2 for explanation of Activity Codes.
6. Status: See Attachment 2 for explanation of Status Codes.
7. Water District number: there are 80 Water Districts in Colorado.
8. MD: Management District number; DB: Designated Ground Water Basin number.  
See Attachment 1.
9. Use claimed for well: see Attachment 3 for explanation of Use codes.
10. Date of well completion report or beneficial use.
11. Annual Appropriation in acre feet.
12. Claimed acreage irrigated.
13. Aquifer in which the well is producing from. See Attachment 1.
14. Well yield in gpm (gallons per minute) (4525.9=dry hole or no report).
15. Total depth of the well.
16. Static water level--depth to water surface.
17. Section location coordinates: feet from section lines.
18. QTRS - Quarters: First 1/4 is the 40 acre designation;  
Second 1/4 is the 160 acre designation.
19. SC - Section number: 1 to 36 - generally 1 square mile.
20. Township: N=North, S=South - generally 6 square miles.
21. Range: W=West, E=East
22. PM: Principal Meridian - Coded as follows for Colorado: S=Sixth, B=Baca,  
C=Costilla, N=New Mexico, U=Ute.



Page 2 of 4  
Water Well Code Explanations

Item 3 - COUNTY CODE NUMBERS

|    |             |    |            |    |            |
|----|-------------|----|------------|----|------------|
| 1  | ADAMS       | 22 | FREMONT    | 43 | MONTROSE   |
| 2  | ALAMOSA     | 23 | GARFIELD   | 44 | MORGAN     |
| 3  | ARAPAHOE    | 24 | GILPIN     | 45 | OTERO      |
| 4  | ARCHULETA   | 25 | GRAND      | 46 | OURAY      |
| 5  | BACA        | 26 | GUNNISON   | 47 | PARK       |
| 6  | BENT        | 27 | HINSDALE   | 48 | PHILLIPS   |
| 7  | BOULDER     | 28 | HUERFANO   | 49 | PITKIN     |
| 8  | CHAFFEE     | 29 | JACKSON    | 50 | PROWERS    |
| 9  | CHEYENNE    | 30 | JEFFERSON  | 51 | PUEBLO     |
| 10 | CLEAR CREEK | 31 | KIOWA      | 52 | RIO BLANCO |
| 11 | CONEJOS     | 32 | KIT CARSON | 53 | RIO GRANDE |
| 12 | COSTILLA    | 33 | LAKE       | 54 | ROUTT      |
| 13 | CROWLEY     | 34 | LA PLATA   | 55 | SAGUACHE   |
| 14 | CUSTER      | 35 | LARIMER    | 56 | SAN JUAN   |
| 15 | DELTA       | 36 | LAS ANIMAS | 57 | SAN MIGUEL |
| 16 | DENVER      | 37 | LINCOLN    | 58 | SEDGWICK   |
| 17 | DOLORES     | 38 | LOGAN      | 59 | SUMMIT     |
| 18 | DOUGLAS     | 39 | MESA       | 60 | TELLER     |
| 19 | EAGLE       | 40 | MINERAL    | 61 | WASHINGTON |
| 20 | ELBERT      | 41 | MOFFAT     | 62 | WELD       |
| 21 | EL PASO     | 42 | MONTEZUMA  | 63 | YUMA       |

Item 8

DESIGNATED GROUNDWATER BASINS AND MGMT DISTRICTS

|    |                            |
|----|----------------------------|
| 1  | NORTHERN HIGH PLAINS       |
| 1  | PLAINS MD                  |
| 2  | SAND HILLS MD              |
| 3  | ARKAREE MD                 |
| 4  | FRENCHMAN MD               |
| 5  | CENTRAL YUMA MD            |
| 6  | W-Y MD                     |
| 8  | EASTERN CHEYENNE MD        |
| 11 | MARKS BUTTE MD             |
| 2  | KIOWA-BUOU                 |
| 7  | NORTH KIOWA BUOU MD        |
| 3  | SOUTHERN HIGH PLAINS       |
| 10 | SOUTHERN HIGH PLAINS MD    |
| 4  | UPPER BLACK SQUIRREL CREEK |
| 12 | UPPER BLACK SQUIRREL CK MD |
| 5  | LOST CREEK                 |
| 9  | LOST CREEK MD              |
| 6  | CAMP CREEK                 |
| 7  | UPPER BIG SANDY            |
| 13 | UPPER BIG SANDY MD         |
| 8  | UPPER CROW CREEK           |

Item 13

AQUIFER CODES

|      |                      |
|------|----------------------|
| GW   | ALL UNNAMED AQUIFERS |
| EA   | ARAPAHOE             |
| UEA  | UPPER ARAPAHOE       |
| LEA  | LOWER ARAPAHOE       |
| JMB  | BRUSHY BASIN         |
| EDB  | BURRO CANYON         |
| KCH  | CHEYENNE             |
| CON  | CONFINED             |
| ED   | DAKOTA               |
| TDW  | DAWSON               |
| UTDW | UPPER DAWSON         |
| LTDW | LOWER DAWSON         |
| TED  | DENVER               |
| JE   | ENTRADA              |
| TO   | GREEN RIVER          |
| PH   | HERMOSA              |
| IL   | ILES                 |
| EL   | LARAMIE              |
| KLF  | LARAMIE FOX HILLS    |
| ML   | LEADVILLE LIMESTONE  |
| MM   | MANCOS               |
| KVV  | MESA VERDE GROUP     |
| JM   | MORRISON             |
| TO   | OGALLALA             |
| TP   | PIERRE SHALE         |
| KPU  | PURGATORIE           |
| JMS  | SALT WASH            |
| UNC  | UNCONFINED           |
| TW   | WASATCH              |
| TR   | WHITE RIVER          |
| FW   | WILLIAMS FORK        |

SAN LUIS VALLEY

SAN LUIS VALLEY

Page 3 of 4  
Water Well Code Explanations

WELL FILE

MAY 13, 1992

Item 5

ACTIVITY CODE

The codes in this field relate to PRIMARY STATUS which are the major actions such as APPLICATION (AP), PERMIT(NP), DENIAL(AD)

- AP = New application received.
- AD = Application denied. Denial number entered in permit number field and date entered in permit issued date field.
- AW = Application for a permit is withdrawn. Code and date also entered to status code and date fields.
- AV = Verbal approval granted to well construction contractor to construct a well without a permit in place (emergency only).
- CA = Canceled well permit. Code and date also entered to status code and date fields.
- CD = Change description of acres irrigated (designated basins). Entered to status and date fields of existing record upon receipt of application.
- CO = Application to commingle wells (designated basins). Entered to status and date fields of existing record upon receipt of application.
- CP = Amended household use permit to allow watering of user's noncommercial domestic animals.
- EX = Well permit expiration date extended.
- MH = Monitoring hole notice of construction. MH file number and date entered in permit number and permit date fields.
- NP = Well permit issued. Permit number and issue date entered in permit number and permit date fields.
- TH = Test hole notice. Replaced by MH notice in 1988.
- TW = Test well. Replaced by MH notice in 1988.

Item 6

STATUS CODES

The codes and dates in these fields relate mainly to INTERMEDIATE STATUS of an application or permit. They will also show final disposition such as SA for statement of use accepted or AB for well abandoned.

- AB = Abandoned well.
- AR = Date application for permit resubmitted to DWR.
- AU = Date application returned to applicant for correction or additional information.
- AH = Date hearing scheduled. No longer used.
- EP = Expired well permit.
- NS = Exempt wells where no statement of use is required. No longer used.
- PI = Pump Installation report received. No longer used.
- PU = Pump Installation report returned to responsible party for correction.
- RC = Record change. A portion of the file was modified/corrected.
- SA = Statement of Beneficial Use accepted.
- SP = Statement of Beneficial Use received.
- SR = Statement of Beneficial Use resubmitted to DWR.
- SU = Statement of Beneficial Use returned to owner for correction.
- WA = Well construction report received. No longer used.
- WU = Well construction report returned to responsible party for correction.

TR CODE Used as a tracking code for counting all activities in the well system. The code for the latest action entered to the system is placed in this field.

Page 4 of 4  
Water Well Code Explanations

WELL SYSTEM  
USE CODES FOR WATER WELL PERMITS

OCTOBER 14, 1992

The well use(s) may be identified by stringing several use codes if the well is used for more than one purpose. The first position use is the major use, followed by successive uses except for the SPECIAL CODES which are found on the lower half of the page.

These codes are standard codes to be used in normal processing. Again, the first code is the major use. It is to be followed by lesser uses and special use in the last position. When using WELLOOK, only the first two positions and the last of 10 positions are used. In some of these cases the 1st and last positions are shown to identify specific uses.

| PERMIT<br>APPLICATION<br>CODE | WELLOOK<br>AND WANG VS<br>CODE | ALPHA CODE<br>GENERATED ON<br>WELLOOK PRINTOUT | USE                       |
|-------------------------------|--------------------------------|--|---------------------------|
| 6                             | 1                              | I  | CROP IRRIGATION           |
| 8                             | 2                              | M  | MUNICIPAL                 |
| 4                             | 3                              | C  | COMMERCIAL                |
| 5                             | 4                              | N  | INDUSTRIAL                |
| 9                             | 5                              | R  | RECREATION                |
| 9                             | 6                              | P  | FISHERY                   |
| 9                             | 7                              | F  | FIRE                      |
| 1                             | 8                              | D  | DOMESTIC                  |
| 2                             | 9                              | S  | LIVESTOCK                 |
| 9                             | G                              | G  | GEOTHERMAL                |
| 0                             | H                              | H  | HOUSEHOLD USE ONLY        |
|                               | K                              | K  | SNOWMAKING                |
| 9                             | O                              | O (LETTER)                                     | OTHER                     |
| 9                             | O                              | O M (LETTERS)                                  | MONITORING HOLE/WELL      |
| R                             |                                | E  | RECHARGE                  |
| 9                             | X                              | X  | ALL BENEFICIAL USES       |
|                               | E                              | E  | EXCHANGE AND AUGMENTATION |

The following codes are to keyed into the last position of the usecode field (spec. field) from the left.

| CODE | TYPE   |
|------|--|
| A    | AUGMENTATION. All wells in augmentation plans are coded with an "A" in the last position. First position is the actual use of the well.  |
| M    | MONITORING WELL (PERMITTED). The first position is "O" followed by "M" in the last position.   |
| Z    | HOUSEHOLD USE WELLS ISSUED PRIOR TO HB1111 THAT HAVE BEEN AMENDED PURSUANT TO (3)(b)(II)(b) BY \$25.00 APPLICATION. First position code is "H" followed by "Z" in the last position.                                       |
| L    | PERMIT ISSUED UNDER PRESUMPTION (3)(b)(II)(A) FOR DOMESTIC/LIVESTOCK USES AS THE ONLY WELL ON 35 ACRES. First position is either "8" domestic or "9" livestock", or both 1st and 2nd followed by "L" in the last position. |
|      | PERMITS ISSUED UNDER (3)(b)(I) WHERE WATER IS AVAILABLE ARE CODED FIRST POSITIONS AS NECESSARY WITH THE ACTUAL USE. HB1111 does not apply to these wells.  |
| G    | GRAVEL PIT WELL PERMIT. This application (PERMIT) is coded as "O" in the first position with "G" in the last position.   |
| C    | CLOSED LOOP GEOTHERMAL WELL. First position is coded as "G" for geothermal. Last position is "C".  |
| P    | GEOTHERMAL PRODUCTION WELL. First position is coded "G" for geothermal. Last position is "P".  |
| S    | OTHER TYPES OF HOLES CONSTRUCTED-ESPECIALLY FOR CATHODIC PROTECTION.   |
| 5    | IDENTIFIES THAT THE PERMIT WAS ISSUED PURSUANT TO SENATE BILL 5 (137 (4). First positions are for the actual use(s) of the well.   |

REPORT DATE 07/29/94

## COLORADO WELLS, APPLICATIONS, AND PERMITS

PAGE 1

## COLORADO DIVISION OF WATER RESOURCES

## PERMIT D CO OWNER INFORMATION

| ACTIVITY | STATUS                          | 1ST USED                  | ANNUAL           | ACRES        | GEOL | WELL  | WELL | WATER SEC | LOCAT'N | TOWN  | P                                      |
|----------|---------------------------------|---------------------------|------------------|--------------|------|-------|------|-----------|---------|-------|--|
| CD       | DATE                            | CD                        | DATE             | WD MD DB USE | DATE | APROP | IRR  | AQFR      | YIELD   | DEPTH | LEVEL COORDINATES QTRS SC SHIP RANGE M |
| 10823AD  | 1 62 VARRA COMPANIES            | BROOMFIELD, CO 80020      |                  |              |      |       |      |           |         |       |  |
| AD       | 03/27/85                        | RC                        | 07/08/85         | 5            | 4    |       |      | GW        |         |       | NESW 36 3 N 68 W S                     |
| 18470MH  | 1 16 KRAUSE SOFA FACTORY        | C/O 7000 E 47TH AVE DR900 | DENVER, CO 80216 |              |      |       |      |           |         |       |  |
| MH       | 12/03/91                        |                           |                  | 8            | O M  |       |      | GW        |         |       | 0 3 S 68 W S                           |
| 18471MH  | 1 16 BOYKEN                     | C/O 7000 E 47TH AVE DR900 | DENVER, CO 80216 |              |      |       |      |           |         |       |  |
| MH       | 12/03/91                        |                           |                  | 8            | O M  |       |      | GW        |         |       | 0 3 S 68 W S                           |
|          | 1 1 GARDENERS DITCH LND DVLP CO | C/O 1777 S HARRISON ST    | DENVER, CO 80210 |              |      |       |      |           |         |       |  |
| AP       | 08/12/91                        | AU                        | 10/29/91         | 2            | O G  |       |      | GW        |         |       | 1 3 S 68 W S                           |

## PERMIT D CO OWNER INFORMATION

| ACTIVITY | STATUS      | 1ST USED                | ANNUAL            | ACRES               | GEOL             | WELL     | WELL | WATER SEC | LOCAT'N | TOWN  | P     |             |         |     |      |       |   |
|----------|-------------|-------------------------|-------------------|---------------------|------------------|----------|------|-----------|---------|-------|-------|-------------|---------|-----|------|-------|---|
| CD       | DATE        | CD                      | DATE              | WD MD DB USE        | DATE             | APROP    | IRR  | AQFR      | YIELD   | DEPTH | LEVEL | COORDINATES | QTRS    | SC  | SHIP | RANGE | M |
| 8697     | 1 16        | SMITH KATHYRN           | 474               | GARFIELD            | DENVER, CO 80206 |          |      |           |         |       |       |             |         |     |      |       |   |
|          | NP 05/22/61 |                         |                   | 2                   | 8                | 05/23/61 |      |           | 30.00   | 40    | 25    |             | NWSW 13 | 3 S | 68 W | S     |   |
| 2047F    | 1 1         | E. & J. PROPERTIES LTD. | P.O. BOX 16066    | DENVER, CO 80216    |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 7                   | 3                | 11/18/58 |      | TKD       | 72.00   | 616   |       | 3554S,2788W | SWNE 14 | 3 S | 68 W | S     |   |
| 2894     | 1 1         | E. & J. PROPERTIES LTD. | P.O. BOX 16066    | DENVER, CO 80216    |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 7                   | 0                | 03/13/59 |      |           | 1750.00 | 36    | 10    | 3572S,2808W | SWNE 14 | 3 S | 68 W | S     |   |
| 737RN    | 1 1         | DENVER LVSTK FEED CO    | 5701 FRANKLIN ST  | DENVER, CO 80216    |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          | NP          | NP 04/30/60             |                   | 2                   | 9                |          |      |           | 100.00  | 34    | 15    |             | NENW 14 | 3 S | 68 W | S     |   |
| 738N     | 1 1         | DENVER LVSTK FEED CO    | 5701 FRANKLIN     | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 9                |          |      |           | 250.00  | 34    | 15    |             | NENW 14 | 3 S | 68 W | S     |   |
| 3166     | 1 1         | HAMOND E                | 5550 MARION       | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 7                   | 8                | 04/16/59 |      |           | 15.00   | 50    | 40    |             | NENW 14 | 3 S | 68 W | S     |   |
| 5053     | 1 1         | FOSKETT J C             | 1313 E 55TH AV    | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 01/06/60 |      |           | 30.00   | 30    | 12    |             | NENW 14 | 3 S | 68 W | S     |   |
| 5074     | 1 1         | BETTGER F W             | 5530 MARION       | DERBY, CO 80022     |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 01/12/60 |      |           | 20.00   | 50    | 15    |             | NENW 14 | 3 S | 68 W | S     |   |
| 5097     | 1 1         | SNIDER JENNIE           | 5525 MARION       | DERBY, CO 80022     |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 01/13/60 |      |           | 20.00   | 50    | 15    |             | NENW 14 | 3 S | 68 W | S     |   |
| 9022     | 1 1         | ESTRUDA NANCY           | 5540 MORRISON     | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 06/28/61 |      |           | 10.00   | 50    | 16    |             | NENW 14 | 3 S | 68 W | S     |   |
| 18918    | 1 1         | ATKINS NORFORD          | 5555 N MARION     | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 03/12/64 |      |           | 10.00   | 300   | 150   |             | NENW 14 | 3 S | 68 W | S     |   |
| 737RN    | 1 16        | SCHWARTZ COHEN CO.      | 5555 FRANKLIN ST. | DENVER, CO 80216    |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 8                   | 9                | 10/23/71 |      |           | 100.00  | 34    | 15    |             | NENW 14 | 3 S | 68 W | S     |   |
| 738RN    | 1 16        | SCHWARTZ COHEN CO.      | 5555 FRANKLIN ST. | DENVER, CO 80216    |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 8                   | 9                | 10/22/80 |      |           | 250.00  | 34    | 15    |             | NENW 14 | 3 S | 68 W | S     |   |
| 3075     | 1 1         | RAEL PETE               | 5550 EMERSON ST   | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 04/03/59 |      |           | 15.00   | 50    | 35    |             | NWNW 14 | 3 S | 68 W | S     |   |
| 4594     | 1 1         | KRISFALUSI L            | 5563 N DOWNING    | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 10/03/59 |      |           | 20.00   | 60    | 12    |             | NWNW 14 | 3 S | 68 W | S     |   |
| 5174     | 1 1         | GUTIERREZ PEDRO         | 5544 DOWNING      | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 02/10/60 |      |           | 30.00   | 50    | 15    |             | NWNW 14 | 3 S | 68 W | S     |   |
| 5276     | 1 1         | ORLOVSKI E              | 5557 EMERSON      | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 03/01/60 |      |           | 5.00    | 85    | 25    |             | NWNW 14 | 3 S | 68 W | S     |   |
| 6147     | 1 1         | LESPERANCE RAYMOND      | 5501 DOWNING ST   | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 06/19/60 |      |           | 10.00   | 32    |       |             | NWNW 14 | 3 S | 68 W | S     |   |
| 9177     | 1 1         | WUENTES PAUL            | 5564 OGDEN        | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 07/14/61 |      |           | 4.00    | 50    | 15    |             | NWNW 14 | 3 S | 68 W | S     |   |
| 10201    | 1 1         | FIRST SECURITY CORP     | 655 BROADWAY      | DENVER, CO 80202    |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 11/14/61 |      |           | 10.00   | 100   | 50    |             | NWNW 14 | 3 S | 68 W | S     |   |
| 22847    | 1 1         | PADILLA JUAN            | 5462 DOWNING      | DENVER, CO 80202    |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 02/04/65 |      |           | 10.00   | 38    | 15    |             | NWNW 14 | 3 S | 68 W | S     |   |
| 24964    | 1 1         | LESPERANCE ROMAN        | 5401 N DOWNING    | DENVER, CO 80202    |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 8                | 08/12/65 |      |           | 20.00   | 30    | 9     |             | NWNW 14 | 3 S | 68 W | S     |   |
| 741      | 1 16        | MONTOUR PATRICK         | 5555 N DOWNING    | DENVER, CO 80202    |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          | NP          | NP 01/05/58             |                   | 2                   | 8                | 01/06/58 |      |           | 30.00   | 40    | 15    |             | NWNW 14 | 3 S | 68 W | S     |   |
| 3801F    | 1 1         | DENVER RENDERING CO     | 5300 N CLARKSON   | DENVER 16, CO 80216 |                  |          |      |           |         |       |       |             |         |     |      |       |   |
|          |             |                         |                   | 2                   | 3                | 11/05/62 |      |           | 240.00  | 32    | 12    |             | SWNW 14 | 3 S | 68 W | S     |   |

## PERMIT D CO OWNER INFORMATION

| ACTIVITY | STATUS                  | 1ST USED | ANNUAL                     | ACRES                     | GEOL                  | WELL     | WELL | WATER SEC | LOCAT'N | TOWN  | P     |             |         |    |      |       |     |
|----------|-------------------------|----------|----------------------------|---------------------------|-----------------------|----------|------|-----------|---------|-------|-------|-------------|---------|----|------|-------|-----|
| CD       | DATE                    | CD       | DATE                       | WD MD DB USE              | DATE                  | APROP    | IRR  | AQFR      | YIELD   | DEPTH | LEVEL | COORDINATES | QTRS    | SC | SHIP | RANGE | M   |
| 6039F    | 1                       | 1        | DENVER RENDERING COMPANY   | 5300 CLARKSON             | DENVER, CO 80202      |          |      |           |         |       |       |             |         |    |      |       |     |
|          |                         |          |                            | 2                         | 4                     |          |      | TK        | 100.00  | 600   | 314   |             | SWNW 14 | 3  | S    | 68    | W S |
| 17209MH  | 1                       | 16       | LOOMIS ARMORED             | C/O 1099 18TH ST STE 2100 | DENVER, CO 80202      |          |      |           |         |       |       |             |         |    |      |       |     |
|          | MH 02/12/91             |          |                            | 7                         | 0                     |          |      | GW        |         |       |       |             | SE 14   | 3  | S    | 68    | W S |
| 3364F    | 1                       | 16       | PAVLAKIS BLD & ENG         | 4709 E EVANS              | DENVER, CO 80202      |          |      |           |         |       |       |             |         |    |      |       |     |
|          |                         |          |                            | 2                         | 8                     | 04/20/60 |      |           | 15.00   | 71    | 30    |             | NESE 14 | 3  | S    | 68    | W S |
| 3365F    | 1                       | 16       | PAVLAKIS PETE              | 231 E GRAVES AVE          | LITTLETON, CO 80123   |          |      |           |         |       |       |             |         |    |      |       |     |
|          |                         |          |                            | 2                         | 3                     | 11/09/61 |      |           | 20.00   | 38    | 20    |             | NESE 14 | 3  | S    | 68    | W S |
| 22107MH  | 1                       | 16       | COLORADO NATIONAL BANK     | C/O WASTE ENGINEERING     | DENVER, CO 80211      |          |      |           |         |       |       |             |         |    |      |       |     |
|          | MH 12/15/93             |          |                            | 8                         | 0                     | M        |      | GW        |         |       |       |             | NESE 14 | 3  | S    | 68    | W S |
| 40484M   | 1                       | 16       | LOOMIS ARMORED INC         | 5115 RACE CT              | DENVER, CO 80216      |          |      |           |         |       |       |             |         |    |      |       |     |
|          | NP 11/12/91 SP 01/29/92 |          |                            | 7                         | 0                     | M        |      | GW        |         | 19    |       | 1500S,1500E | NWSE 14 | 3  | S    | 68    | W S |
| 40485M   | 1                       | 16       | LOOMIS ARMORED INC         | 5115 RACE CT              | DENVER, CO 80216      |          |      |           |         |       |       |             |         |    |      |       |     |
|          | NP 11/12/91 SP 01/29/92 |          |                            | 7                         | 0                     | M        |      | GW        |         | 20    |       | 1500S,1500E | NWSE 14 | 3  | S    | 68    | W S |
| 40486M   | 1                       | 16       | LOOMIS ARMORED INC         | 5115 RACE CT              | DENVER, CO 80216      |          |      |           |         |       |       |             |         |    |      |       |     |
|          | NP 11/12/91 SP 01/29/92 |          |                            | 7                         | 0                     | M        |      | GW        |         | 19    |       | 1500S,1500E | NWSE 14 | 3  | S    | 68    | W S |
| 40487M   | 1                       | 16       | LOOMIS ARMORED INC         | 5115 RACE CT              | DENVER, CO 80216      |          |      |           |         |       |       |             |         |    |      |       |     |
|          | NP 11/12/91 SP 01/29/92 |          |                            | 7                         | 0                     | M        |      | GW        |         | 19    |       | 1500S,1500E | NWSE 14 | 3  | S    | 68    | W S |
| 13720R   | 1                       | 1        | TALARICO ANTHONY J         | 5800 N FRANKLN ST         | DENVER 16, CO 80216   |          |      |           |         |       |       |             |         |    |      |       |     |
|          |                         |          |                            | 2                         | 1                     |          |      |           | 450.00  | 33    | 16    |             | NWSE 14 | 3  | S    | 68    | W S |
| 2007F    | 1                       | 16       | HELMICK RICHARD R. TRUSTEE | 3600 S. YOSEMITE          | DENVER, CO 80237      |          |      |           |         |       |       |             |         |    |      |       |     |
|          |                         |          |                            | 2                         | 4                     | 09/26/58 |      | TKD       | 55.00   | 750   |       |             | NWSE 14 | 3  | S    | 68    | W S |
| 21740MH  | 1                       | 16       | SALVENSEN CHRISTIAN        | C/O CHEN-NORTHERN INC     | DENVER, CO 80223      |          |      |           |         |       |       |             |         |    |      |       |     |
|          | MH 10/18/93             |          |                            | 8                         | 0                     | M        |      | GW        |         |       |       |             | NWSE 14 | 3  | S    | 68    | W S |
| 21789MH  | 1                       | 1        | NER DATA PRODUCTS          | C/O HUNTINGDON CHEN NORTH | DENVER, CO 80223      |          |      |           |         |       |       |             |         |    |      |       |     |
|          | MH 10/21/93             |          |                            | 7                         | 0                     | M        |      | GW        |         |       |       |             | NWSE 14 | 3  | S    | 68    | W S |
| 19905MH  | 1                       | 16       | DENVER PUBLIC SCHOOLS      | % HUNTINGTON CHEN NORTH   | DENVER, CO 80223      |          |      |           |         |       |       |             |         |    |      |       |     |
|          | MH 10/19/92             |          |                            | 8                         | 0                     | M        |      | GW        |         |       |       |             | SWSE 14 | 3  | S    | 68    | W S |
| 27409    | 1                       | 1        | BRANNAN SAND & GRAVEL      | 4800 BRIGHTON BL          | DENVER, CO 80202      |          |      |           |         |       |       |             |         |    |      |       |     |
|          |                         |          |                            | 2                         | 8                     | 05/27/66 |      |           | 5.00    | 24    | 6     |             | SWSE 14 | 3  | S    | 68    | W S |
| 3957F    | 1                       | 16       | BAGINSKI L P               | 4900 BRIGHTON BL          | DENVER 16, CO 80216   |          |      |           |         |       |       |             |         |    |      |       |     |
|          |                         |          |                            | 2                         | 4                     | 03/08/63 |      |           | 7.00    | 100   | 45    |             | SWSE 14 | 3  | S    | 68    | W S |
| 40175    | 1                       | 16       | COMPANY JOHNS              | 4995 JACKSON ST           | DENVER, CO 80202      |          |      |           |         |       |       |             |         |    |      |       |     |
|          |                         |          |                            | 2                         | 8                     | 01/28/70 |      |           | 25.00   | 100   | 22    |             | SWSE 14 | 3  | S    | 68    | W S |
| 177981   | 1                       | 16       | DENVER PUBLIC SCHOOLS      | 2320 W 4TH AVE            | DENVER, CO 80223-1009 |          |      |           |         |       |       |             |         |    |      |       |     |
|          | NP 03/10/94 AR 04/04/94 |          |                            | 8                         | 0                     | M        |      | GW        |         |       |       | 0098S,172SE | SWSE 14 | 3  | S    | 68    | W S |
| 177982   | 1                       | 16       | DENVER PUBLIC SCHOOLS      | 2320 W 4TH AVE            | DENVER, CO 80223-1009 |          |      |           |         |       |       |             |         |    |      |       |     |
|          | NP 03/10/94 AR 04/04/94 |          |                            | 8                         | 0                     | M        |      | GW        |         |       |       | 0225S,1750E | SWSE 14 | 3  | S    | 68    | W S |
| 177983   | 1                       | 16       | DENVER PUBLIC SCHOOLS      | 2320 W 4TH AVE            | DENVER, CO 80223-1009 |          |      |           |         |       |       |             |         |    |      |       |     |
|          | NP 03/10/94 AR 04/04/94 |          |                            | 8                         | 0                     | M        |      | GW        |         |       |       | 0165S,1750E | SWSE 14 | 3  | S    | 68    | W S |
| 177984   | 1                       | 16       | DENVER PUBLIC SCHOOLS      | 2320 W 4TH AVE            | DENVER, CO 80223-1009 |          |      |           |         |       |       |             |         |    |      |       |     |
|          | NP 03/10/94 AR 04/04/94 |          |                            | 8                         | 0                     | M        |      | GW        |         |       |       | 0240S,191SE | SWSE 14 | 3  | S    | 68    | W S |
| 177985   | 1                       | 16       | DENVER PUBLIC SCHOOLS      | 2320 W 4TH AVE            | DENVER, CO 80223-1009 |          |      |           |         |       |       |             |         |    |      |       |     |
|          | NP 03/10/94 AR 04/04/94 |          |                            | 8                         | 0                     | M        |      | GW        |         |       |       | 0488S,232SE | SWSE 14 | 3  | S    | 68    | W S |
| 177986   | 1                       | 16       | DENVER PUBLIC SCHOOLS      | 2320 W 4TH AVE            | DENVER, CO 80223-1009 |          |      |           |         |       |       |             |         |    |      |       |     |
|          | NP 03/10/94 AR 04/04/94 |          |                            | 8                         | 0                     | M        |      | GW        |         |       |       | 0458S,192SE | SWSE 14 | 3  | S    | 68    | W S |
| 177987   | 1                       | 16       | DENVER PUBLIC SCHOOLS      | 2320 W 4TH AVE            | DENVER, CO 80223-1009 |          |      |           |         |       |       |             |         |    |      |       |     |
|          | NP 03/10/94 AR 04/04/94 |          |                            | 8                         | 0                     | M        |      | GW        |         |       |       | 0715S,1800E | SWSE 14 | 3  | S    | 68    | W S |

## COLORADO DIVISION OF WATER RESOURCES

## PERMIT D CO OWNER INFORMATION

| ACTIVITY  | STATUS                        | 1ST USED                  | ANNUAL                   | ACRES | GEOL | WELL   | WELL | WATER SEC   | LOCAT'N     | TOWN    | P          |
|---|-------------------------------|---------------------------|--------------------------|-------|------|--------|------|-------------|-------------|---------|------------|
| CD DATE CD DATE WD MD DB USE DATE APROP IRR AQFR YIELD DEPTH LEVEL COORDINATES QTRS SC SHIP RANGE M |                               |                           |                          |       |      |        |      |             |             |         |            |
| 177988  | 1 16 DENVER PUBLIC SCHOOLS    | 2320 W 4TH AVE            | DENVER, CO 80223-1009    |       |      |        |      |             |             |         |            |
| NP 03/10/94 AR 04/04/94   | 8                             | O M                       |                          |       | GW   |        |      | 0765S,2070E | SWSE 14     | 3 S     | 68 W S     |
| 177989  | 1 16 DENVER PUBLIC SCHOOLS    | 2320 W 4TH AVE            | DENVER, CO 80223-1009    |       |      |        |      |             |             |         |            |
| NP 03/10/94 AR 04/04/94   | 8                             | O M                       |                          |       | GW   |        |      | 0975S,1800E | SWSE 14     | 3 S     | 68 W S     |
| 177990  | 1 16 DENVER PUBLIC SCHOOLS    | 2320 W 4TH AVE            | DENVER, CO 80223-1009    |       |      |        |      |             |             |         |            |
| NP 03/10/94 AR 04/04/94   | 8                             | O M                       |                          |       | GW   |        |      | 0968S,2425E | SWSE 14     | 3 S     | 68 W S     |
| 177991  | 1 16 DENVER PUBLIC SCHOOLS    | 2320 W 4TH AVE            | DENVER, CO 80223-1009    |       |      |        |      |             |             |         |            |
| NP 03/10/94 AR 04/04/94   | 8                             | O M                       |                          |       | GW   |        |      | 1085S,2085E | SWSE 14     | 3 S     | 68 W S     |
| 177992  | 1 16 DENVER PUBLIC SCHOOLS    | 2320 W 4TH AVE            | DENVER, CO 80223-1009    |       |      |        |      |             |             |         |            |
| NP 03/10/94 AR 04/04/94   | 8                             | O M                       |                          |       | GW   |        |      | 1265S,2025E | SWSE 14     | 3 S     | 68 W S     |
| 177993  | 1 16 DENVER PUBLIC SCHOOLS    | 2320 W 4TH AVE            | DENVER, CO 80223-1009    |       |      |        |      |             |             |         |            |
| NP 03/10/94 AR 04/04/94   | 8                             | O M                       |                          |       | GW   |        |      | 1165S,2225E | SWSE 14     | 3 S     | 68 W S     |
| 17947MH   | 1 30 LOOMIS ARMORED INC       | C/O 1099 18TH ST STE 2100 | DENVER, CO 80202         |       |      |        |      |             |             |         |            |
| MH 08/07/91 SP 11/12/91   | 7                             | O                         |                          |       | GW   |        |      |             | SW 14       | 3 S     | 68 W S     |
| 18120MH   | 1 16 DENVER CITY & CNTY OF    | C/O 215 UNION BLVD # 550  | LAKEWOOD, CO 80228       |       |      |        |      |             |             |         |            |
| MH 09/12/91   | 7                             | O                         |                          |       | GW   |        |      |             | NESW 14     | 3 S     | 68 W S     |
| 163416  | 1 16 DENVER CITY & COUNTY OF  | 2460 W 26TH AVE STE 300C  | DENVER, CO 80211         |       |      |        |      |             |             |         |            |
| NP 12/04/91 AR 01/24/92   | 8                             | O M                       |                          |       | GW   |        | 18   | 1900S,0780W | NWSW 14     | 3 S     | 68 W S     |
| 163417  | 1 16 DENVER CITY & COUNTY OF  | 2460 W 26TH AVE STE 300C  | DENVER, CO 80211         |       |      |        |      |             |             |         |            |
| NP 12/04/91 AR 01/24/92   | 8                             | O M                       |                          |       | GW   |        | 18   | 1900S,0780W | NWSW 14     | 3 S     | 68 W S     |
| 163418  | 1 16 DENVER CITY & COUNTY OF  | 2460 W 26TH AVE STE 300C  | DENVER, CO 80211         |       |      |        |      |             |             |         |            |
| NP 12/04/91 AR 01/24/92   | 8                             | O M                       |                          |       | GW   |        | 16   | 1900S,0780W | NWSW 14     | 3 S     | 68 W S     |
| 163419  | 1 16 DENVER CITY & COUNTY OF  | 2460 W 26TH AVE STE 300C  | DENVER, CO 80211         |       |      |        |      |             |             |         |            |
| NP 12/04/91 AR 01/24/92   | 8                             | O M                       |                          |       | GW   |        | 16   | 1900S,0780W | NWSW 14     | 3 S     | 68 W S     |
| 4795F   | 1 1 MEINERZ DEHYDRATING PLANT | 4900 HUMBOLDT ST          | DENVER 16, CO 80216      |       |      |        |      |             |             |         |            |
|   | 2                             | 4                         | 10/30/63                 |       |      | 400.00 | 34   | 14          |             | SESW 14 | 3 S 68 W S |
| 19718F  | 1 16 K & B PACKING CO         | BOX 5244 T. A.            | DENVER, CO 80217         |       |      |        |      |             |             |         |            |
|   | 8                             | 4                         | 02/19/17                 |       | KA   | 175.00 |      |             | 1000S,1380W | SESW 14 | 3 S 68 W S |
| 19719F  | 1 16 K & B PACKING CO         | BOX 5244 T. A.            | DENVER, CO 80217         |       |      |        |      |             |             |         |            |
|   | 8                             | 4                         | 12/31/17                 |       |      | 99.00  |      |             | 1100S,3520E | SESW 14 | 3 S 68 W S |
| 19720F  | 1 16 K & B PACKING CO         | BOX 5244 T. A.            | DENVER, CO 80217         |       |      |        |      |             |             |         |            |
|   | 8                             | 4                         | 12/31/58                 |       |      | 197.00 |      |             | 1270S,3170E | SESW 14 | 3 S 68 W S |
|   | 1 16 NATIONAL WESTE           | DENVER, CO 80216          |                          |       |      |        |      |             |             |         |            |
| AP 03/30/78 AU 05/08/78   | 8                             | 4                         |                          |       |      |        |      |             | SWSW 14     | 3 S     | 68 W S     |
| 2201F   | 1 16 PENNER-FRANTZ & CO.      | 1795 W. WARREN AVE.       | DENVER, CO 80219         |       |      |        |      |             |             |         |            |
|   | 8                             | 4                         | 06/22/59                 |       |      | 175.00 | 29   | 28          | 1190S,0417W | SWSW 14 | 3 S 68 W S |
| 7725F   | 1 16 LANDERS INC              | 801 E 50TH                | DENVER, CO 80202         |       |      |        |      |             |             |         |            |
|   | 2                             | 3                         | 08/02/57                 |       |      |        | 26   |             |             | SWSW 14 | 3 S 68 W S |
| 16128MH   | 1 1 WILLIAMS MARY I           | C/O 5251 DTC PKWY STE 800 | ENGLEWOOD, CO 80111-2737 |       |      |        |      |             |             |         |            |
| MH 04/23/90   | 7                             | O                         |                          |       | GW   |        |      |             |             | NE 15   | 3 S 68 W S |
| 16129MH   | 1 1 CO DEPT HIGHWAYS          | C/O 5251 DTC PKWY STE 800 | ENGLEWOOD, CO 80111-2737 |       |      |        |      |             |             |         |            |
| MH 04/23/90   | 7                             | O                         |                          |       | GW   |        | 19   | 8           |             | NE 15   | 3 S 68 W S |
| 20140MH   | 1 16 DRYWALL PROPERTIES       | % HWS TECH                | DENVER, CO 80237         |       |      |        |      |             |             |         |            |
| MH 12/09/92   | 8                             | O M                       |                          |       | GW   |        |      |             |             | NE 15   | 3 S 68 W S |
| 23671   | 1 1 NICHOLS FRANK             | 5501 N WASHINGTON         | DENVER, CO 80202         |       |      |        |      |             |             |         |            |
|   | 2                             | 8                         | 05/03/65                 |       |      | 1.00   | 28   | 1           |             | NENE 15 | 3 S 68 W S |
| 39408   | 1 1 LYNN PAUL                 | 5550 LOGAN                | DENVER, CO 80202         |       |      |        |      |             |             |         |            |
|   | 2                             | 8                         | 09/18/69                 |       |      | 4.00   | 47   | 11          |             | NENE 15 | 3 S 68 W S |

## PERMIT D CO OWNER INFORMATION

| ACTIVITY | STATUS | 1ST USED | ANNUAL                      | ACRES                     | GEOL                  | WELL          | WELL               | WATER SEC        | LOCAT'N | TOWN  | P     |             |         |    |      |       |     |
|----------|--------|----------|-----------------------------|---------------------------|-----------------------|---------------|--------------------|------------------|---------|-------|-------|-------------|---------|----|------|-------|-----|
| CD       | DATE   | CD       | DATE                        | WD MD DB USE              | DATE                  | APROP         | IRR                | AQFR             | YIELD   | DEPTH | LEVEL | COORDINATES | QTRS    | SC | SHIP | RANGE | M   |
| 90289    | 1      | 1        | WILSON KATHERINE            | 5517 PENN                 | DENVER, CO 80216      |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          |        |          |                             | 7                         | 8                     | 03/31/35      | 1.00               |                  | 10.00   | 65    |       | 0450N,0720E | NENE 15 | 3  | S    | 68    | W S |
| 16946MH  | 1      | 1        | CO DEPT HIGHWAYS            | C/O 5251 DTC PKWY STE 800 | ENGLEWOOD, CO 80111   |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | MH     | 10/26/90 |                             | 7                         | 0                     |               |                    | GW               |         |       |       |             | NWNE 15 | 3  | S    | 68    | W S |
| 39205M   | 1      | 1        | CO DIV HIGHWAYS DIST 6      | 2000 S HOLLY ST           | DENVER, CO 80222      |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | NP     | 05/20/91 |                             | 7                         | 0                     | M             |                    | GW               |         |       |       | 0020N,2450E | NWNE 15 | 3  | S    | 68    | W S |
| 39207M   | 1      | 1        | CO DIV HIGHWAYS DIST 6      | 2000 S HOLLY ST           | DENVER, CO 80222      |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | NP     | 05/20/91 |                             | 7                         | 0                     | M             |                    | GW               |         |       |       | 0750N,2500E | NWNE 15 | 3  | S    | 68    | W S |
| 6623     | 1      | 1        | NELSON MERLE J              | 5460 SHERMAN              | DENVER 16, CO 80216   |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          |        |          |                             | 2                         | 8                     | 08/16/60      |                    |                  | 8.00    | 115   | 40    |             | NWNE 15 | 3  | S    | 68    | W S |
| 21588MH  | 1      | 16       | COLO DEPT OF TRANSPORTATION | C/O OCCUPATIONAL MGMT INC | DENVER, CO 80222      |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | MH     | 09/29/93 |                             | 8                         | 0                     | M             |                    | GW               |         |       |       |             | NWNE 15 | 3  | S    | 68    | W S |
| 21708MH  | 1      | 1        | COLO DEPT OF TRANSPORTATION | C/O OCCUPATIONAL MGMT INC | DENVER, CO 80222      |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | MH     | 09/30/93 |                             | 7                         | 0                     | M             |                    | GW               |         |       |       |             | NWNE 15 | 3  | S    | 68    | W S |
| 30401F   | 1      | 1        | ASARCO INC.                 | DENVER, CO 80216          |                       |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | NP     | 12/27/85 | EP 08/18/87                 | 2                         | 2                     | 5             |                    | TKD              |         |       |       |             | SENE 15 | 3  | S    | 68    | W S |
| 11106AD  | 1      | 1        | ASARCO INC.                 | DENVER, CO 80216          |                       |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | AD     | 12/27/85 |                             | 2                         | 2                     |               |                    | KA               |         |       |       |             | SENE 15 | 3  | S    | 68    | W S |
| 11107AD  | 1      | 1        | ASARCO INC.                 | DENVER, CO 80216          |                       |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | AD     | 12/27/85 |                             | 2                         | 2                     |               |                    | KA               |         |       |       |             | SENE 15 | 3  | S    | 68    | W S |
| 11108AD  | 1      | 1        | ASARCO INC.                 | DENVER, CO 80216          |                       |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | AD     | 12/27/85 |                             | 2                         | 2                     |               |                    | KLF              |         |       |       |             | SENE 15 | 3  | S    | 68    | W S |
| 3606     | 1      | 1        | CASILLAN GENARO             | 5389 SHERMAN ST           | DENVER 16, CO 80216   |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          |        |          |                             | 2                         | 8                     | 07/03/59      |                    |                  | 10.00   | 101   | 15    |             | SWNE 15 | 3  | S    | 68    | W S |
| 7598     | 1      | 1        | FERCH JOHN                  | 13605W 82ND               | ARVADA, CO 80001      |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          |        |          |                             | 2                         | 8                     | 12/13/60      |                    |                  | 3.00    | 23    | 8     |             | SWNE 15 | 3  | S    | 68    | W S |
| 16946MH  | 1      | 1        | CO DEPT HIGHWAYS            | C/O 5251 DTC PKWY STE 800 | ENGLEWOOD, CO 80111   |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | MH     | 10/26/90 |                             | 7                         | 0                     |               |                    | GW               |         |       |       |             | NENW 15 | 3  | S    | 68    | W S |
| 17440MH  | 1      | 30       | GEORGA PACIFIC              | C/O 1000 COB PL BLVD #200 | KENNESAW, GA 30144    |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | MH     | 04/17/91 |                             | 7                         | 0                     |               |                    | GW               |         |       |       |             | NENW 15 | 3  | S    | 68    | W S |
| 19490MH  | 1      | 16       | KEYSTONE ENV RESOURCES      | 3000 TECH CENTER DR       | MONROEVILLE, PA 15146 |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | MH     | 08/04/92 |                             | 8                         | 0                     | M             |                    | GW               |         |       |       |             | NENW 15 | 3  | S    | 68    | W S |
| 2202     | 1      | 1        | HARNEY VERL                 | 157 W 56TH                | DENVER 16, CO 80216   |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          |        |          |                             | 2                         | 8                     | 10/22/58      |                    |                  | 10.00   | 60    | 15    |             | NENW 15 | 3  | S    | 68    | W S |
| 3385F    | 1      | 1        | RUBEROID COMPANY            | 156 W 56TH AVE            | DENVER, CO 80202      |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          |        |          |                             | 2                         | 4                     | 01/05/62      |                    | KA               | 120.00  | 762   | 431   |             | NENW 15 | 3  | S    | 68    | W S |
| 16173R   | 1      | 1        | RUBBEROID CO                | 156 W 56TH AV             | DENVER, CO 80202      |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          |        | AB       | 06/14/94                    | 2                         | 3                     | 02/28/53      |                    | KA               | 60.00   | 740   | 325   |             | NENW 15 | 3  | S    | 68    | W S |
| 20415MH  | 1      | 1        | GEORGIA PACIFIC CORP        | C/O CHESTER ENVIRONMENTAL | MONROEVILLE, PA 15146 |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | MH     | 03/17/93 |                             | 7                         | 0                     | M             |                    | GW               |         |       |       |             | NENW 15 | 3  | S    | 68    | W S |
| 20416MH  | 1      | 1        | ADAMS CO/MONTGOMERY WARD    | C/O CHESTER ENVIRONMENTAL | MONROEVILLE, PA 15146 |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | MH     | 03/17/93 |                             | 7                         | 0                     | M             |                    | GW               |         |       |       |             | NENW 15 | 3  | S    | 68    | W S |
| 15749MH  | 1      | 30       | HYDROKINETICS               | 12975 W 24TH PLACE        | GOLDEN, CO 80401      |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | MH     | 01/18/90 |                             | 7                         | 0                     |               |                    | GW               |         |       |       |             | NWNW 15 | 3  | S    | 68    | W S |
|          |        |          |                             | 1                         | 1                     | HYDROKINETICS | 12975 W 24TH PLACE | GOLDEN, CO 80401 |         |       |       |             |         |    |      |       |     |
|          | AP     | 12/11/89 | AU 01/19/90                 | 7                         | 0                     | M             |                    | GW               |         |       |       |             | NWNW 15 | 3  | S    | 68    | W S |
| 20184MH  | 1      | 16       | PARAMOUNT COMM REALTY CORP  | % ATEC ASSOC INC          | ARVADA, CO 80002      |               |                    |                  |         |       |       |             |         |    |      |       |     |
|          | MH     | 12/21/92 |                             | 8                         | 0                     | M             |                    | GW               |         |       |       |             | NWNW 15 | 3  | S    | 68    | W S |



REPORT DATE 07/29/94

## COLORADO WELLS, APPLICATIONS, AND PERMITS

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## COLORADO DIVISION OF WATER RESOURCES

## PERMIT D CO OWNER INFORMATION

| ACTIVITY | STATUS   | 1ST USED | ANNUAL                   | ACRES                     | GEOL                  | WELL  | WELL | WATER | SEC   | LOCAT'N | TOWN  | P           |         |     |      |       |   |
|----------|----------|----------|--------------------------|---------------------------|-----------------------|-------|------|-------|-------|---------|-------|-------------|---------|-----|------|-------|---|
| CD       | DATE     | CD       | DATE                     | WD MD DB USE              | DATE                  | APROP | IRR  | AQFR  | YIELD | DEPTH   | LEVEL | COORDINATES | QTRS    | SC  | SHIP | RANGE | M |
| 20416MH  | 1        | 1        | ADAMS CO/MONTGOMERY WARD | C/O CHESTER ENVIRONMENTAL | MONROEVILLE, PA 15146 |       |      |       |       |         |       |             |         |     |      |       |   |
| MH       | 03/17/93 |          |                          | 7                         | O M                   |       |      | GW    |       |         |       |             | NWNW 15 | 3 S | 68 W | S     |   |
| 20028MH  | 1        | 16       | OWENS CORNING FIBERGLAS  | % ENGINEERING SCI INC     | DENVER, CO 80290      |       |      |       |       |         |       |             |         |     |      |       |   |
| MH       | 11/13/92 |          |                          | 7                         | O M                   |       |      | GW    |       |         |       |             | SWNW 15 | 3 S | 68 W | S     |   |
| 20406MH  | 1        | 16       | BACE PLASTICS GROUP INC  | C/O STEWART ENVIRON CONS  | FT COLLINS, CO 80522  |       |      |       |       |         |       |             |         |     |      |       |   |
| MH       | 03/15/93 |          |                          | 8                         | O M                   |       |      | GW    |       |         |       |             | SWNW 15 | 3 S | 68 W | S     |   |
| 21275MH  | 1        | 16       | BURLINGTON NORTHERN      | C/O HWS TECHNOLOGIES INC  | DENVER, CO 80237-1853 |       |      |       |       |         |       |             |         |     |      |       |   |
| MH       | 08/11/93 |          |                          | 8                         | O M                   |       |      | GW    |       |         |       |             | SWNW 15 | 3 S | 68 W | S     |   |
| 35938F   | 1        | 16       | FAIRBANKS SCALES         | 4850 BROADWAY             | DENVER, CO 80223      |       |      |       |       |         |       |             |         |     |      |       |   |
| NP       | 10/16/89 |          |                          | 8                         | O M                   |       |      | GW    |       |         |       |             | SWSE 15 | 3 S | 68 W | S     |   |

## PERMIT D CO OWNER INFORMATION

| ACTIVITY | STATUS | 1ST USED | ANNUAL                           | ACRES                     | GEOL                     | WELL     | WELL | WATER | SEC             | LOCAT'N | TOWN  | P           |         |      |      |       |   |
|----------|--------|----------|----------------------------------|---------------------------|--------------------------|----------|------|-------|-----------------|---------|-------|-------------|---------|------|------|-------|---|
| CD       | DATE   | CD       | DATE                             | WD MD DB USE              | DATE                     | APROP    | IRR  | AQFR  | YIELD           | DEPTH   | LEVEL | COORDINATES | QTRS    | SC   | SHIP | RANGE | M |
| 35938F   | 1      | 16       | FAIRBANKS SCALES                 | 4850 BROADWAY             | DENVER, CO 80223         |          |      |       |                 |         |       |             |         |      |      |       |   |
|          | NP     | 10/16/89 |                                  | 8                         | O M                      |          |      | GW    |                 |         |       | SWSE 15     | 3 S     | 68 W | S    |       |   |
| 16125MH  | 1      | 1        | SILCO OIL                        | C/O 5251 DTC PKWY STE 800 | ENGLEWOOD, CO 80111-2737 |          |      |       |                 |         |       |             |         |      |      |       |   |
|          | MH     | 04/23/90 |                                  | 7                         | O                        |          |      | GW    |                 |         |       | SW 15       | 3 S     | 68 W | S    |       |   |
| 16126MH  | 1      | 1        | CO DEPT HIGHWAYS                 | C/O 5251 DTC PKWY STE 800 | ENGLEWOOD, CO 80111-2737 |          |      |       |                 |         |       |             |         |      |      |       |   |
|          | MH     | 04/23/90 | AB 07/11/91                      | 7                         | O                        |          |      | GW    |                 | 20      | 8     | SW 15       | 3 S     | 68 W | S    |       |   |
| 16127MH  | 1      | 1        | JEL INVESTMENTS                  | C/O 5251 DTC PKWY STE 800 | ENGLEWOOD, CO 80111-2737 |          |      |       |                 |         |       |             |         |      |      |       |   |
|          | MH     | 04/23/90 |                                  | 7                         | O                        |          |      | GW    |                 | 19      | 7     | SW 15       | 3 S     | 68 W | S    |       |   |
| 20385MH  | 1      | 16       | US WEST                          | C/O HWS TECHNOLOGIES      | DENVER, CO 80237         |          |      |       |                 |         |       |             |         |      |      |       |   |
|          | MH     | 03/04/93 |                                  | 8                         | O M                      |          |      | GW    |                 |         |       | SW 15       | 3 S     | 68 W | S    |       |   |
| 20575MH  | 1      | 16       | US WEST COMMUNICATIONS           | C/O HWS CONSULTING GROUP  | DENVER, CO 80237         |          |      |       |                 |         |       |             |         |      |      |       |   |
|          | MH     | 04/21/93 |                                  | 8                         | O M                      |          |      | GW    |                 |         |       | SW 15       | 3 S     | 68 W | S    |       |   |
| 17532MH  | 1      | 16       | IRELAND STAPLETON PRYOR & PASCO  | C/O 5950 S WILLOW DR #310 | ENGLEWOOD, CO 80111      |          |      |       |                 |         |       |             |         |      |      |       |   |
|          | MH     | 05/06/91 |                                  | 7                         | O                        |          |      | GW    |                 |         |       | NESW 15     | 3 S     | 68 W | S    |       |   |
| 39206M   | 1      | 1        | CO DIV HIGHWAYS DIST 6           | 2000 S HOLLY ST           | DENVER, CO 80222         |          |      | BLK 2 | BURLINGTON PARK |         |       |             |         |      |      |       |   |
|          | NP     | 05/20/91 |                                  | 7                         | O M                      |          |      | GW    |                 |         |       | 2550S,2450W | NESW 15 | 3 S  | 68 W | S     |   |
| 39208M   | 1      | 1        | CO DIV HIGHWAYS                  | 2000 S HOLLY ST           | DENVER, CO 80222         |          |      |       |                 |         |       |             |         |      |      |       |   |
|          | NP     | 05/20/91 |                                  | 7                         | O M                      |          |      | GW    |                 |         |       | 2600S,2100W | NESW 15 | 3 S  | 68 W | S     |   |
| 20930R   | 1      | 16       | ASSOCIATED GROCERS OF COLO       | 5151 BANNOCK ST           | DENVER, CO 80202         |          |      |       |                 |         |       |             |         |      |      |       |   |
|          |        |          |                                  | 2                         | 3                        | 12/01/22 |      | KA    | 226.00          | 559     | 336   | NWSW 15     | 3 S     | 68 W | S    |       |   |
| 20930S   | 1      | 16       | ASSOCIATED GROCERS OF COLO       | 5151 BANNOCK ST           | DENVER, CO 80202         |          |      |       |                 |         |       |             |         |      |      |       |   |
|          |        |          |                                  | 2                         | 3                        | 03/20/23 |      | KA    | 245.00          | 525     | 336   | NWSW 15     | 3 S     | 68 W | S    |       |   |
| 21509MH  | 1      | 16       | U S WEST BUSSINESS RESOURCES INC | C/O HWS TECHNOLOGIES INC  | DENVER, CO 80237-1853    |          |      |       |                 |         |       |             |         |      |      |       |   |
|          | MH     | 09/15/93 |                                  | 8                         | O M                      |          |      | GW    |                 |         |       | NWSW 15     | 3 S     | 68 W | S    |       |   |
| 16063MH  | 1      | 30       | RTD                              | C/O 1100 STOUT ST # 1100  | DENVER, CO 80204         |          |      |       |                 |         |       |             |         |      |      |       |   |
|          | MH     | 04/05/90 |                                  | 7                         | O                        |          |      | GW    |                 |         |       | SESW 15     | 3 S     | 68 W | S    |       |   |
| 27093    | 1      | 1        | STATE COLO BOARD LAND COMM       | 1313 SHERMAN ST R620      | DENVER, CO 80203         |          |      |       |                 |         |       |             |         |      |      |       |   |
|          |        |          |                                  | 2                         | 8                        | 05/06/66 |      |       | 15.00           | 37      | 31    | SWNE 16     | 3 S     | 68 W | S    |       |   |

## COLORADO DIVISION OF WATER RESOURCES

## PERMIT D CO OWNER INFORMATION

| ACTIVITY                | STATUS  | 1ST USED            | ANNUAL           | ACRES | GEOL | WELL  | WELL  | WATER SEC   | LOCAT'N     | TOWN        | P            |
|-------------------------|---|---------------------|------------------|-------|------|-------|-------|-------------|-------------|-------------|--------------|
| CD DATE CD DATE         | WD MD DB USE  | DATE                | APROP            | IRR   | AQFR | YIELD | DEPTH | LEVEL       | COORDINATES | QTRS SC     | SHIP RANGE M |
| 5601F 1 16              | LEPRINO CHEESE MFG CO                                 | 1840 W 38TH         | DENVER, CO 80202 |       |      |       |       |             |             |             |              |
|                         |   | 2 3                 | 05/15/64         |       |      | 10.00 | 80    | 40          |             | SESW 21 3 S | 68 W S       |
| 17663MH 1 16            | RTD C/O 215 UNION BLVD # 800                          | LAKEWOOD, CO 80228  |                  |       |      |       |       |             |             |             |              |
| MH 06/10/91             |   | 8 0                 |                  |       | GW   |       |       |             |             | NE 22 3 S   | 68 W S       |
| 20155MH 1 16            | DENVER CITY & COUNTY STOCK SHOW & AGUIRRE ENGR INC    | ENGLEWOOD, CO 80155 |                  |       |      |       |       |             |             |             |              |
| MH 12/09/92             |   | 8 0 M               |                  |       | GW   |       |       |             |             | NE 22 3 S   | 68 W S       |
| 15866MH 1 16            | CO DEPT HIGHWAYS C/O 1002 WALNUT ST                   | BOULDER, CO 80306   |                  |       |      |       |       |             |             |             |              |
| MH 03/06/90             |   | 8 0                 |                  |       | GW   |       |       |             |             | SENE 22 3 S | 68 W S       |
| 17212MH 1 30            | POTUZAK CHARLES C/O 2600 W 29TH AVE                   | DENVER, CO 80211    |                  |       |      |       |       |             |             |             |              |
| MH 02/12/91             |   | 8 0                 |                  |       | GW   |       |       |             |             | SWNE 22 3 S | 68 W S       |
| 17600MH 1 1             | WHEATRIDGE LUMBER CO C/O 2600 W 29TH AVE              | DENVER, CO 80211    |                  |       |      |       |       |             |             |             |              |
| MH 05/22/91             |   | 8 0                 |                  |       | GW   |       |       |             |             | SWNE 22 3 S | 68 W S       |
| 18228MH 1 30            | POTUZAK CHARLES C/O 2600 W 29TH SVE                   | DENVER, CO 80211    |                  |       |      |       |       |             |             |             |              |
| MH 10/01/91             |   | 8 0                 |                  |       | GW   |       |       |             |             | SWNE 22 3 S | 68 W S       |
| 18279MH 1 30            | POTUZAK CHARLES C/O 2600 W 29TH AVE                   | DENVER, CO 80211    |                  |       |      |       |       |             |             |             |              |
| MH 10/15/91             |   | 8 0                 |                  |       | GW   |       |       |             |             | SWNE 22 3 S | 68 W S       |
| 19432MH 1 16            | DENVER POST & HWS TECH 9101 E KENYON AVE #1600        | DENVER, CO 80237    |                  |       |      |       |       |             |             |             |              |
| MH 07/24/92             |   | 8 0 M               |                  |       | GW   |       |       |             |             | NW 22 3 S   | 68 W S       |
| 23172MH 1 16            | MCBRIDE CRAIG C/O HUNTINGDON CHEN NORTH               | DENVER, CO 80223    |                  |       |      |       |       |             |             |             |              |
| MH 07/07/94             |   | 8 0 M               |                  |       | GW   |       |       |             |             | NENW 22 3 S | 68 W S       |
| 17840MH 1 30            | FIRE & POLICE PENSION ASSOC C/O 2 INVERNESS DR E #201 | ENGLEWOOD, CO 80112 |                  |       |      |       |       |             |             |             |              |
| MH 07/19/91             |   | 8 0                 |                  |       | GW   |       |       |             |             | NWNW 22 3 S | 68 W S       |
| 180208 1 16             | DENVER POST 4499 FOX ST                               | DENVER, CO 80216    |                  |       |      |       |       |             |             |             |              |
| NP 05/17/94 AR 07/05/94 |   | 8 0 M               |                  |       | GW   |       | 25    | 0898N,0156W |             | NWNW 22 3 S | 68 W S       |
| 22142MH 1 16            | STOUT STREET FOUNDATION C/O HUNTINGDON CHEN-NORTH     | DENVER, CO 80223    |                  |       |      |       |       |             |             |             |              |
| MH 01/11/94             |   | 8 0 M               |                  |       | GW   |       |       |             |             | SWNW 22 3 S | 68 W S       |
| 180209 1 16             | DENVER POST 4499 FOX ST                               | DENVER, CO 80216    |                  |       |      |       |       |             |             |             |              |
| NP 05/17/94 AR 07/05/94 |   | 8 0 M               |                  |       | GW   |       | 27    | 1372N,0607W |             | SWNW 22 3 S | 68 W S       |
| 180210 1 16             | DENVER POST 4499 FOX ST                               | DENVER, CO 80216    |                  |       |      |       |       |             |             |             |              |
| NP 05/17/94 AR 07/05/94 |   | 8 0 M               |                  |       | GW   |       | 30    | 1689N,1056W |             | SWNW 22 3 S | 68 W S       |
| 180211 1 16             | DENVER POST 4499 FOX ST                               | DENVER, CO 80216    |                  |       |      |       |       |             |             |             |              |
| NP 05/17/94 AR 07/05/04 |   | 8 0 M               |                  |       | GW   |       | 20    | 1901N,0871W |             | SWNW 22 3 S | 68 W S       |
| 180212 1 16             | DENVER POST 4499 FOX ST                               | DENVER, CO 80216    |                  |       |      |       |       |             |             |             |              |
| NP 05/17/94 AR 07/05/94 |   | 8 0 M               |                  |       | GW   |       | 25    | 1637N,0185W |             | SWNW 22 3 S | 68 W S       |
| 180213 1 16             | DENVER POST 4499 FOX ST                               | DENVER, CO 80216    |                  |       |      |       |       |             |             |             |              |
| NP 05/17/94 AR 07/05/94 |   | 8 0 M               |                  |       | GW   |       | 30    | 1930N,0132W |             | SWNW 22 3 S | 68 W S       |
| 180214 1 16             | DENVER POST 4499 FOX ST                               | DENVER, CO 80216    |                  |       |      |       |       |             |             |             |              |
| NP 05/17/94 AR 07/05/94 |   | 8 0 M               |                  |       | GW   |       | 25    | 1716N,0449W |             | SWNW 22 3 S | 68 W S       |
| 24495F 1 16             | SPRATLEN F P  | DENVER, CO 80216    |                  |       |      |       |       |             |             |             |              |
| NP 08/24/79             |   | 8 4                 |                  |       |      |       |       |             |             | NESE 22 3 S | 68 W S       |
| 15680MH 1 16            | GOODSTEIN TRUST C/O P O BOX 805                       | EVERGREEN, CO 80439 |                  |       |      |       |       |             |             |             |              |
| MH 12/14/89             |   | 8 0                 |                  |       | GW   |       |       |             |             | SESE 22 3 S | 68 W S       |
| 16249MH 1 16            | GOODSTEIN TRUST C/O P O BOX 805                       | EVERGREEN, CO 80203 |                  |       |      |       |       |             |             |             |              |
| MH 05/17/90             |   | 8 0                 |                  |       | GW   |       |       |             |             | SESE 22 3 S | 68 W S       |
| 6531F 1 16              | YORKER & SONS INC                                     | 601 E 48TH AVE      | DENVER, CO 80202 |       |      |       |       |             |             |             |              |
|                         |   | 2 4                 | 01/20/65         |       | KA   | 10.00 | 375   | 291         |             | SESE 22 3 S | 68 W S       |
| 6710F 1 16              | YORKER & SONS INC                                     | 601 E 48TH AVE      | DENVER, CO 80202 |       |      |       |       |             |             |             |              |
|                         |   | 2 4                 | 01/20/65         |       | KA   | 10.00 | 373   | 291         |             | SESE 22 3 S | 68 W S       |

## PERMIT D CO OWNER INFORMATION

| ACTIVITY | STATUS                  | 1ST USED                        | ANNUAL             | ACRES              | GEOL                   | WELL                | WELL | WATER SEC | LOCAT'N | TOWN  | P     |              |         |     |      |       |   |
|----------|-------------------------|---------------------------------|--------------------|--------------------|------------------------|---------------------|------|-----------|---------|-------|-------|--------------|---------|-----|------|-------|---|
| CD       | DATE                    | CD                              | DATE               | WD MD DB USE       | DATE                   | APROP               | IRR  | AQFR      | YIELD   | DEPTH | LEVEL | COORDINATES  | QTRS    | SC  | SHIP | RANGE | M |
| 17426MH  | 1 16                    | RTD                             | 1600               | BLAKE ST           | DENVER, CO 80202       |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 04/12/91             |                                 | 8                  | O                  |                        |                     |      | GW        |         |       |       |              | SWSE 22 | 3 S | 68   | W S   |   |
| 19806MH  | 1 16                    | RTD                             | %                  | GROUND EXPLORATION | GOLDEN, CO 80403       |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 09/28/92             |                                 | 8                  | O M                |                        |                     |      | GW        |         |       |       |              | SWSE 22 | 3 S | 68   | W S   |   |
| 15673MH  | 1 16                    | CO DIV                          | HIGHWAYS           | C/O 4582 S         | ULSTER ST PKWY         | DENVER, CO 80237    |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 12/12/89             |                                 | 8                  | O                  |                        |                     |      | GW        |         |       |       |              | SW 22   | 3 S | 68   | W S   |   |
| 17584MH  | 1 16                    | CO DEPT                         | HIGHWAYS           | C/O 4582 S         | ULSTER PL PKWY         | DENVER, CO 80237    |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 05/16/91             |                                 | 8                  | O                  |                        |                     |      | GW        |         | 21    |       |              | SW 22   | 3 S | 68   | W S   |   |
| 18906MH  | 1 16                    | WAGNER EQUIP CO %               | HWS TECH INC       | 9101 E             | KENYON AVE #1600       | DENVER, CO 80237    |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 04/06/92             |                                 | 8                  | O                  |                        |                     |      | GW        |         |       |       |              | SW 22   | 3 S | 68   | W S   |   |
| 20301MH  | 1 16                    | PACIFICA HOLDING COMPANY        | %                  | HUNTINGDON CHEN    | NORTHRN                | DENVER, CO 80223    |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 02/05/93             |                                 | 8                  | O M                |                        |                     |      | GW        |         | 24    | 15    |              | SW 22   | 3 S | 68   | W S   |   |
| 20348MH  | 1 16                    | CO FORKLIFT INC                 | %                  | JOHN FAULKNER INC  |                        | DENVER, CO 80216    |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 02/23/93             |                                 | 8                  | O M                |                        |                     |      | GW        |         | 27    | 17    |              | SW 22   | 3 S | 68   | W S   |   |
| 22191MH  | 1 16                    | CICO LTD                        | C/O                | PARK ENVIRO TECH   | COLO SPRINGS, CO 80917 |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 01/18/94             |                                 | 8                  | O M                |                        |                     |      | GW        |         |       |       |              | SW 22   | 3 S | 68   | W S   |   |
|          | 1 16                    | DAVIS CO.                       |                    | DENVER, CO 80216   |                        |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | AP 03/15/84 AU 03/30/84 |                                 | 8                  | 4                  |                        |                     |      |           |         |       |       |              | NESW 22 | 3 S | 68   | W S   |   |
| 13297F   | 1 16                    | DAVIS BROS. INC.                | P.O. BOX 5027 T.A. | DENVER, CO 80217   |                        |                     |      |           |         |       |       |              |         |     |      |       |   |
|          |                         |                                 | 2                  | 4                  | 09/30/68               |                     |      | KA        | 100.00  | 700   | 300   |              | NESW 22 | 3 S | 68   | W S   |   |
| 21871MH  | 1 16                    | BRANNAN SAND & GRAVEL           | C/O                | SHB AGRA INC       | LAKEWOOD, CO 80228     |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 11/10/93             |                                 | 2                  | O M                |                        |                     |      | GW        |         |       |       |              | NWSW 22 | 3 S | 68   | W S   |   |
| 180207   | 1 16                    | DENVER POST                     | 4499               | FOX ST             | DENVER, CO 80216       |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | NP 05/17/94 AR 07/05/94 |                                 | 8                  | O M                |                        |                     |      | GW        |         | 27    |       | 2482S, 0396W | NWSW 22 | 3 S | 68   | W S   |   |
| 22850MH  | 1 16                    | GREINER INC                     | C/O                | HUNTINGDON CHEN    | NORTH                  | DENVER, CO 80223    |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 05/12/94             |                                 | 8                  | O M                |                        |                     |      | GW        |         |       |       |              | NWSW 22 | 3 S | 68   | W S   |   |
| 10780F   | 1 16                    | CITY ICE COMPANY                | 2101               | 31ST ST            | DENVER, CO 80202       |                     |      |           |         |       |       |              |         |     |      |       |   |
|          |                         |                                 | 2                  | 4                  |                        |                     |      |           | 350.00  | 32    |       |              | SESW 22 | 3 S | 68   | W S   |   |
| 16235MH  | 1 16                    | AIR RENTALS                     | C/O                | 13949 W            | COLFAX AVE             | GOLDEN, CO 80401    |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 05/15/90             |                                 | 8                  | O                  |                        |                     |      | GW        |         |       |       |              | SWSW 22 | 3 S | 68   | W S   |   |
| 35740M   | 1 1                     | TEXACO REFINING & MARKETING     | 4601               | DTC BLVD           | DENVER, CO 80237       |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | NP 08/31/89 AB 11/15/89 |                                 | 8                  | O M                |                        |                     |      | GW        |         |       |       | 0600S, 0200W | SWSW 22 | 3 S | 68   | W S   |   |
| 35741M   | 1 1                     | TEXACO REFINING & MARKETING     | 4601               | DTC BLVD           | DENVER, CO 80237       |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | NP 08/31/89 AB 11/15/89 |                                 | 8                  | O M                |                        |                     |      | GW        |         |       |       | 0600S, 0200W | SWSW 22 | 3 S | 68   | W S   |   |
| 35742M   | 1 1                     | TEXACO REFINING & MARKETING     | 4601               | DTC BLVD           | DENVER, CO 80237       |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | NP 08/31/89 AB 11/15/89 |                                 | 8                  | O M                |                        |                     |      | GW        |         |       |       | 0600S, 0200W | SWSW 22 | 3 S | 68   | W S   |   |
| 35743M   | 1 1                     | TEXACO REFINING & MARKETING     | 4601               | DTC BLVD           | DENVER, CO 80237       |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | NP 08/31/89 AB 11/15/89 |                                 | 8                  | O M                |                        |                     |      | GW        |         |       |       | 0600S, 0200W | SWSW 22 | 3 S | 68   | W S   |   |
| 21903MH  | 1 16                    | POWER RENTAL                    | C/O                | GLENN RUCKHAUS     | LAKEWOOD, CO 80228     |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 11/15/93             |                                 | 8                  | O M                |                        |                     |      | GW        |         |       |       |              | SWSW 22 | 3 S | 68   | W S   |   |
| 20156MH  | 1 16                    | DENVER CITY & COUNTY STOCK SHOW | %                  | AGUIRRE ENGR INC   | ENGLEWOOD, CO 80155    |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 12/09/92             |                                 | 8                  | O M                |                        |                     |      | GW        |         |       |       |              | 23      | 3 S | 68   | W S   |   |
| 19717MH  | 1 16                    | DENVER CITY & COUNTY            | %                  | ET TECHNOLOGIES    | ENGLEWOOD, CO 80112    |                     |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 09/14/92             |                                 | 8                  | O M                |                        |                     |      | GW        |         | 41    |       |              | NE 23   | 3 S | 68   | W S   |   |
| 163768   | 1 16                    | CO DEPT                         | TRANSPORTATION     | 2000 S             | HOLLY DIST 6           | DENVER, CO 80222    |      |           |         |       |       |              |         |     |      |       |   |
|          | NP 02/28/92             |                                 | 8                  | O M                |                        |                     |      | GW        |         |       |       | 1280N, 2530E | NWNE 23 | 3 S | 68   | W S   |   |
| 19201MH  | 1 16                    | DENVER CITY & CO %              | ET TECH INC        | 6800 S             | DAWSON CIR # 100       | ENGLEWOOD, CO 80112 |      |           |         |       |       |              |         |     |      |       |   |
|          | MH 05/29/92             |                                 | 8                  | O                  |                        |                     |      | GW        |         | 40    |       |              | NWNE 23 | 3 S | 68   | W S   |   |

REPORT DATE 07/29/94

COLORADO WELLS, APPLICATIONS, AND PERMITS  
COLORADO DIVISION OF WATER RESOURCES

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## PERMIT D CO OWNER INFORMATION

| ACTIVITY | STATUS                              | 1ST USED                  | ANNUAL                  | ACRES               | GEOL | WELL  | WELL   | WATER | SEC   | LOCAT'N     | TOWN        | P             |      |    |      |       |   |
|----------|-------------------------------------|---------------------------|-------------------------|---------------------|------|-------|--------|-------|-------|-------------|-------------|---------------|------|----|------|-------|---|
| CD       | DATE                                | CD                        | DATE                    | WD MD DB USE        | DATE | APROP | IRR    | AQFR  | YIELD | DEPTH       | LEVEL       | COORDINATES   | QTRS | SC | SHIP | RANGE | M |
| 171903   | 1 16 E T TECHNOLOGIES INC           | 6800 S DAWSON CIR         | #100                    | ENGLEWOOD, CO 80112 | LOT  | 21    | BLK    | 10    | FLG   | 16          | ELYRIA      |               |      |    |      |       |   |
| NP       | 05/10/93                            | 8                         | O M                     |                     |      | UNC   |        | 38    |       | 1200N,2600E | NWNE        | 23 3 S 68 W S |      |    |      |       |   |
| 171904   | 1 16 E T TECHNOLOGIES INC           | 6800 S DAWSON CIR         | #100                    | ENGLEWOOD, CO 80112 | LOT  | 24    | BLK    | 10    | FLG   | 16          | ELYRIA      |               |      |    |      |       |   |
| NP       | 05/10/93                            | 8                         | O M                     |                     |      | UNC   |        | 37    |       | 1251N,2590E | NWNE        | 23 3 S 68 W S |      |    |      |       |   |
| 171905   | 1 16 E T TECHNOLOGIES INC           | 6800 S DAWSON CIR         | #100                    | ENGLEWOOD, CO 80112 | LOT  | 24    | BLK    | 10    | FLG   | 16          | ELYRIA      |               |      |    |      |       |   |
| NP       | 05/10/93                            | 8                         | O M                     |                     |      | UNC   |        | 40    |       | 1265N,2530E | NWNE        | 23 3 S 68 W S |      |    |      |       |   |
| 171906   | 1 16 E T TECHNOLOGIES INC           | 6800 S DAWSON CIR         | #100                    | ENGLEWOOD, CO 80112 | LOT  | 24    | BLK    | 10    | FLG   | 16          | ELYRIA      |               |      |    |      |       |   |
| NP       | 05/10/93                            | 8                         | O M                     |                     |      | UNC   |        | 38    |       | 1275N,2600E | NWNE        | 23 3 S 68 W S |      |    |      |       |   |
| 171907   | 1 16 E T TECHNOLOGIES INC           | 6800 S DAWSON CIR         | #100                    | ENGLEWOOD, CO 80112 | LOT  | 24    | BLK    | 10    | FLG   | 16          | ELYRIA      |               |      |    |      |       |   |
| NP       | 05/10/93                            | 8                         | O M                     |                     |      | UNC   |        | 38    |       | 1251N,2594E | NWNE        | 23 3 S 68 W S |      |    |      |       |   |
| 16895MH  | 1 16 RALSTON PURINA                 | C/O 605 PARFET ST STE 100 | LAKEWOOD, CO 80215-5518 |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| MH       | 10/09/90                            | 8                         | O                       |                     |      | GW    |        | 31    |       |             | SENE        | 23 3 S 68 W S |      |    |      |       |   |
| 8975F    | 1 16 CO BY PRODUCTS CO              | 4400 BRIGHTON BLVD        | DENVER, CO 80216        |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
|          |                                     | 2                         | 3                       | 08/22/58            |      | KA    | 50.00  | 737   |       |             | SWNE        | 23 3 S 68 W S |      |    |      |       |   |
| 19717MH  | 1 16 DENVER CITY & COUNTY           | % ET TECHNOLOGIES         | ENGLEWOOD, CO 80112     |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| MH       | 09/14/92                            | 8                         | O M                     |                     |      | GW    |        |       |       |             | NW          | 23 3 S 68 W S |      |    |      |       |   |
| 19200MH  | 1 16 WITULSKI ROGER D % ET TECH INC | 6800 S DAWSON CIR # 100   | ENGLEWOOD, CO 80112     |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| MH       | 05/29/92                            | 8                         | O                       |                     |      | GW    |        | 38    |       |             | NENW        | 23 3 S 68 W S |      |    |      |       |   |
| 20566MH  | 1 16 WESTERN STOCK SHOW ASSOC       | C/O ET TECHNOLOGIES INC   | ENGLEWOOD, CO 80112     |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| MH       | 04/21/93                            | 8                         | O M                     |                     |      | GW    |        | 40    | 30    |             | NENW        | 23 3 S 68 W S |      |    |      |       |   |
| 171909   | 1 16 E T TECHNOLOGIES INC           | 6800 S DAWSON CIR         | #100                    | ENGLEWOOD, CO 80112 | LOT  | 24    | BLK    | 4     | FLG   | 15          | WEST ELYRIA |               |      |    |      |       |   |
| NP       | 05/10/93                            | 8                         | O M                     |                     |      | UNC   |        | 38    |       | 1200N,2600W | NENW        | 23 3 S 68 W S |      |    |      |       |   |
| 171908   | 1 16 E T TECHNOLOGIES INC           | 6800 S DAWSON CIR         | #100                    | ENGLEWOOD, CO 80112 | LOT  | 22    | BLK    | 4     | FLG   | 15          | WEST ELYRIA |               |      |    |      |       |   |
| NP       | 05/10/93                            | 8                         | O M                     |                     |      | UNC   |        | 38    |       | 1270N,2600W | NENW        | 23 3 S 68 W S |      |    |      |       |   |
| 163453   | 1 16 DENVER CITY & COUNTY OF        | 2460 W 26TH AVE STE 300C  | DENVER, CO 80211        |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| NP       | 12/04/91 AR 01/24/92                | 8                         | O M                     |                     |      | GW    |        | 25    |       | 0750N,0800W | NWNW        | 23 3 S 68 W S |      |    |      |       |   |
| 163454   | 1 16 DENVER CITY & COUNTY OF        | 2460 W 26TH AVE STE 300C  | DENVER, CO 80211        |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| NP       | 12/04/91 AR 01/24/92                | 8                         | O M                     |                     |      | GW    |        | 23    |       | 0750N,0800W | NWNW        | 23 3 S 68 W S |      |    |      |       |   |
|          | 1 16 NATIONAL WESTE                 | DENVER, CO 80216          |                         |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| AP       | 03/30/78 AU 05/08/78                | 8                         | 4                       |                     |      |       |        |       |       |             | NWNW        | 23 3 S 68 W S |      |    |      |       |   |
| 19721F   | 1 16 K & B PACKING CO               | BOX 5244 T.A.             | DENVER, CO 80217        |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
|          |                                     | 8                         | 4                       | 01/27/53            |      |       | 494.00 |       |       | 0520S,4980E | NWNW        | 23 3 S 68 W S |      |    |      |       |   |
| 19722F   | 1 16 K & B PACKING CO               | BOX 5244 T.A              | DENVER, CO 80217        |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
|          |                                     | 8                         | 4                       | 12/31/15            |      | KA    | 404.00 |       |       | 5100S,5000E | NWNW        | 23 3 S 68 W S |      |    |      |       |   |
| 19723F   | 1 16 K & B PACKING CO               | BOX 5244 T.A.             | DENVER, CO 80217        |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
|          |                                     | 8                         | 4                       | 12/31/36            |      |       | 67.00  |       |       | 5050S,4950E | NWNW        | 23 3 S 68 W S |      |    |      |       |   |
| 163764   | 1 16 CO DEPT TRANSPORTATION         | 2000 S HOLLY DIST 6       | DENVER, CO 80222        |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| NP       | 02/28/92                            | 8                         | O M                     |                     |      | GW    |        |       |       | 1470N,1660W | SENE        | 23 3 S 68 W S |      |    |      |       |   |
| 163765   | 1 16 CO DEPT TRANSPORTATION         | 2000 S HOLLY DIST 6       | DENVER, CO 80222        |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| NP       | 02/28/92                            | 8                         | O M                     |                     |      | GW    |        |       |       | 1480N,1980W | SENE        | 23 3 S 68 W S |      |    |      |       |   |
| 163766   | 1 16 CO DEPT TRANSPORTATION         | 2000 S HOLLY DIST 6       | DENVER, CO 80222        |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| NP       | 02/28/92                            | 8                         | O M                     |                     |      | GW    |        |       |       | 1490N,1400W | SENE        | 23 3 S 68 W S |      |    |      |       |   |
| 163767   | 1 16 CO DEPT TRANSPORTATION         | 2000 S HOLLY DIST 6       | DENVER, CO 80222        |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| NP       | 02/28/92                            | 8                         | O M                     |                     |      | GW    |        |       |       | 1520N,2440W | SENE        | 23 3 S 68 W S |      |    |      |       |   |
| 163769   | 1 16 CO DEPT TRANSPORTATION         | 2000 S HOLLY DIST 6       | DENVER, CO 80222        |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
| NP       | 02/28/92                            | 8                         | O M                     |                     |      | GW    |        |       |       | 1400N,2630W | SENE        | 23 3 S 68 W S |      |    |      |       |   |
| 2904F    | 1 16 WALKER SAM C                   | 2101 38TH                 | DENVER 5, CO 80205      |                     |      |       |        |       |       |             |             |               |      |    |      |       |   |
|          |                                     | 2                         | 3                       | 01/27/61            |      |       | 10.00  | 35    | 3     |             | SESE        | 23 3 S 68 W S |      |    |      |       |   |

## PERMIT D CO OWNER INFORMATION

| ACTIVITY | STATUS                  | 1ST USED                       | ANNUAL                | ACRES             | GEOL     | WELL  | WELL | WATER  | SEC   | LOCAT'N | TOWN        | P           |         |      |      |       |   |
|----------|-------------------------|--------------------------------|-----------------------|-------------------|----------|-------|------|--------|-------|---------|-------------|-------------|---------|------|------|-------|---|
| CD       | DATE                    | CD                             | DATE                  | WD MD DB USE      | DATE     | APROP | IRR  | AQFR   | YIELD | DEPTH   | LEVEL       | COORDINATES | QTRS    | SC   | SHIP | RANGE | M |
| 15603MH  | 1 16                    | PENSKE TRUCK LEASING           | C/O 1391 N SPEER BLVD | DENVER, CO 80204  |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | MH 11/09/89             |                                | 8                     | O                 |          |       |      | GW     |       |         |             |             | SW 23   | 3 S  | 68 W | S     |   |
| 18669F   | 1 16                    | NATIONAL TEA CO                | 4120 BRIGHTON BLVD.   | DENVER, CO 80217  |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          |                         |                                | 8                     | 4                 | 10/24/74 |       |      | 300.00 | 46    | 30      | 1750S,1790W | NESW 23     | 3 S     | 68 W | S    |       |   |
| 38106M   | 1 16                    | PENSKE TRUCK LEASING CO        | P O BOX 563           | READING, PA 19603 |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | NP 11/07/90             |                                | 8                     | O M               |          |       |      | GW     |       |         |             | 1600S,0350W | NWSW 23 | 3 S  | 68 W | S     |   |
| 38107M   | 1 16                    | PENSKE TRUCK LEASING CO        | P O BOX 563           | READING, PA 19603 |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | NP 11/07/90             |                                | 8                     | O M               |          |       |      | GW     |       |         |             | 1700S,0280W | NWSW 23 | 3 S  | 68 W | S     |   |
| 38108M   | 1 16                    | PENSKE TRUCK LEASING CO        | P O BOX 563           | READING, PA 19603 |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | NP 11/07/90             |                                | 8                     | O M               |          |       |      | GW     |       |         |             | 1670S,0340W | NWSW 23 | 3 S  | 68 W | S     |   |
| 15053MH  | 1 16                    | CO DEPT HEALTH                 | 4210 E 11TH AVE       | DENVER, CO 80220  |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | MH 05/23/89             |                                | 8                     | O                 |          |       |      | GW     | 102   | 36      |             | SESW 23     | 3 S     | 68 W | S    |       |   |
| 38496M   | 1 16                    | CO DEPT HEALTH                 | 4210 E 11TH AVE       | DENVER, CO 80220  |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | NP 12/13/90             |                                | 8                     | O M               |          |       |      | GW     |       |         |             | 1100S,2100W | SESW 23 | 3 S  | 68 W | S     |   |
| 38497M   | 1 16                    | CO DEPT HEALTH                 | 4210 E 11TH AVE       | DENVER, CO 80220  |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | NP 12/13/90             |                                | 8                     | O M               |          |       |      | GW     |       |         |             | 0900S,1900W | SESW 23 | 3 S  | 68 W | S     |   |
| 38498M   | 1 16                    | CO DEPT HEALTH                 | 4210 E 11TH AVE       | DENVER, CO 80220  |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | NP 12/13/90             |                                | 8                     | O M               |          |       |      | GW     |       |         |             | 0700S,2200W | SESW 23 | 3 S  | 68 W | S     |   |
| 167391   | 1 16                    | BARNETT COMPANY                | 3800 WYNKOOP          | DENVER, CO 80216  |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | NP 09/21/92 AR 10/08/92 |                                | 8                     | O M               |          |       |      | GW     |       |         |             | 0950S,1400W | SESW 23 | 3 S  | 68 W | S     |   |
| 12653F   | 1 16                    | CONTINENTAL PLASTICS INC       | 1300 40TH ST          | DENVER, CO 80202  |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          |                         |                                | 2                     | 4                 | 03/04/68 |       |      | 150.00 | 52    | 36      |             | SESW 23     | 3 S     | 68 W | S    |       |   |
| 19121MH  | 1 16                    | BARNETT CO & ENPRO CONSULT GRP | 1601 BLAKE ST #524    | DENVER, CO 80202  |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | MH 05/18/92             |                                | 8                     | O                 |          |       |      | GW     |       |         |             | SWSW 23     | 3 S     | 68 W | S    |       |   |
| 167392   | 1 16                    | BARNETT COMPANY                | 3800 WYNKOOP          | DENVER, CO 80216  |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | NP 09/21/92 AR 10/08/92 |                                | 8                     | O M               |          |       |      | GW     |       |         |             | 1050S,1100W | SWSW 23 | 3 S  | 68 W | S     |   |
| 19DA     | 1 16                    | ROLD PAUL                      | 4078 AMES AVE         | DENVER, CO 00000  |          |       |      |        |       |         |             |             |         |      |      |       |   |
|          | 06/24/57 CA 06/25/57    |                                | 8                     | 8                 |          |       |      |        |       |         |             |             | 24      | 3 S  | 68 W | S     |   |